



U.S. Department  
of Transportation

**National Highway  
Traffic Safety  
Administration**

400 Seventh Street, S.W.  
Washington, D.C. 20590

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

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AUTO SAFETY HOTLINE  
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UMTRI - 96 - 8  
VERSION 05

UM-3710-98  
1998 GMC Suburban

# In-depth Vehicle Occupant Report

The University  
of Michigan  
Transportation  
Research Institute

UMIVOR-UMIVOR-UMIVOR



## UM-3710-98

Case Vehicle (A): 1998 GMC  
Type: Suburban SLE, 4-door 4 x 4 APV  
Driver: 18-year-old male  
CDC: Ø1-FZEW-2, Ø3-RBEN-1

Veh. (B): 1993 Buick  
Type: Regal Custom, 4-door sedan  
Driver: 61-year-old female  
CDC: Ø9-LPEW-3, Ø9-LBEE-1

### Situation

(Slide 1) Case vehicle (A) was traveling north up a hill at an unknown speed, (slide 2) on a two-lane asphalt road in a rural residential/agricultural area. It was daylight, the sky was clear, and the road surface was dry and in good condition. (Slide 3) Vehicle (B) was stopped at the crest of a hill, at a “stop sign” facing west, on a two-lane gravel road. As case vehicle (A) approached the intersection at the crest of the hill, the driver did not see the stop sign and failed to stop. Case vehicle (A) struck vehicle (B) in the left-front fender with its right-front. Vehicle (B) rotated clockwise and then the right-rear quarter panel of case vehicle (A) struck the left-rear corner of vehicle (B), in a slap-together motion. (Slide 4) Case vehicle (A) came to rest facing north, just off the west edge of the road surface. Vehicle (B) came to rest facing north in the northbound lane.

(Slide 5) Damage to vehicle (B) was moderate. The maximum crush was 19 cm to the left-front fender just in front of the left wheel.

Using the WinSMASH accident-reconstruction program and (slides 6, 7 and 8) c-values measured for case vehicle (A) and (slides 9, 10 and 11) vehicle (B), the following crash severities were calculated for the frontal impact:

Vehicle	Variable	Calculated Velocity Change - kph (mph)		
		Total	Longitudinal	Latitudinal
Case Vehicle (A)	EBS	31 (19)	-30 (-19)	-5 (-3)
	Delta V	20 (12)	-20 (-12)	-3 (-2)
Vehicle (B)	EBS	19 (12)	-3 (-2)	19 (12)
	Delta V	29 (18)	-5 (-3)	29 (18)

### Exterior Damage

(Slide 12) Damage to case vehicle (A) was moderate. (Slide 13) The maximum crush was 31 cm to the right-center of the front bumper. (Slide 14) Using the undamaged portion of the front bumper (74 cm) and an undeformed end width (UEW) of 180 cm, the front-end overlap was calculated to be 59 percent. The vehicle overlap was calculated to be 58 percent using the overall width of 195 cm.

In the front, (slide 15) the grille, right headlight assembly, hood, and hood latch were damaged, the hood latch was jammed closed (pried opened by the body shop), and the rear edge of the hood was elevated, but it did not contact the undamaged windshield. (Slides 16 and 17) The engine compartment was damaged. On the right side, (slide 18) the front fender was damaged, and the front tire was flat, (slide 19) but there was no significant change in the wheelbase. On the left side, (slide 20) the front fender was damaged, but there was no significant change in the wheelbase. (Slide 21) There was no damage to the rear of the vehicle.

(Slide 22) The maximum right-side crush from the slap-together impact was 4 cm to the right-rear quarter panel.

### Interior Damage

(Slide 23) This vehicle was equipped with steering-wheel and (slide 24) passenger frontal-impact airbags, which deployed. (Slides 25, 26 and 27) There was no damage to the steering-wheel rim or spokes, and no apparent rotation of the steering column. (Slides 28, 29, 30, 31, 32 and 33) There was no apparent damage to the interior.

### Occupant Injuries and Kinematics

(Slide 34) The 5-ft, 11-in, 18-year-old male driver was wearing the three-point belt and (slide 35) the frontal-impact airbag deployed. A webbing imprint on the plastic D-ring is evidence of belt use during the crash. (Slide 36) The male driver of case vehicle (A) did not sustain any injuries, as noted in the attached table.



Occupant: Driver  
Restraints: 3-point belt worn and airbag deployed

Age: 18 years  
Stature: 180 cm (5 ft 11 in)

Sex: Male  
Mass: 95 kg (210 lb)

Injury Description	A.I.S.	Injury Source		
		Definite	Probable	Possible
No injury				
<u>Maximum A.I.S. Level</u>	<u>0</u>			
<u>Injury Severity Score</u>	<u>0</u>			

TEAM CODE

30  
1

ACCIDENT ID

03710  
3 7

VEHICLE NUMBER

1  
8

MODULE

A D  
9

FORMAT

0 1  
11

FORM VERSION

0 5  
13

NO. OF CASE VEHICLES IN ACCIDENT

1  
15

NUMBER OF SLIDES

36  
16

TEAM REPORT NUMBER

UM-3710-98  
18 27

28

37

SPECIAL STUDY

99  
38 39

(00) None

(01) Offset Frontal

(98) Not Applicable

DATE OF FIELD INVESTIGATION:

[REDACTED] 98

INVESTIGATOR:

[REDACTED]

LOCATION WHERE VEHICLE WAS EVALUATED:

[REDACTED], Michigan

CIRCLE PHOTO RECORDS MADE:

SLIDES

NEGATIVES

POLAROIDS

REPORT PREPARED BY:

[REDACTED]

# GENERAL INFORMATION GI-1

TIME		ENVIRONMENTAL CONDITIONS	
DATE OF COLLISION <u>                    9 8                    </u> m m d d y y		CONSTRUCTION ZONE	
HOUR OF COLLISION <u>0 8 4 8</u> (24 HOUR CLOCK) 19 22		(0) NO (1) YES (9) UNKNOWN	
LOCATION		ROAD ALIGNMENT VERTICAL PLANE	
STATE: <u>Michigan</u>		(1) LEVEL (2) CREST OF HILL (3) SLOPE (2%) (4) BOTTOM OF HILL (9) UNKNOWN	
STATE FIPS CODE		ROAD ALIGNMENT HORIZONTAL PLANE	
<u>26</u> 23 24		(1) STRAIGHT (2) CURVE (3) T - SHAPED (4) Y - SHAPED (7) OTHER: _____ (9) UNKNOWN	
AREA		SURFACE COVERING	
(1) URBAN (2) RURAL (9) UNKNOWN		(10) DRY  (21) WATER - DAMP (22) WATER - WET (23) WATER - PUDDLED (29) WATER - AMOUNT UNKNOWN  (31) SNOW - LOOSE (32) SNOW - PACKED (39) SNOW - CONDITION UNKNOWN  (41) ICE (51) SLUSH (61) SPILLED GRAVEL (71) OTHER: _____ (99) UNKNOWN	
ENVIRONMENTAL CONDITIONS		VISIBILITY LIMITATION (FOR CASE VEHICLE)	
LIMITED-ACCESS HIGHWAY		(0) NONE (1) CLOUDY/DARK (2) FOG (3) SMOKE (4) WINDSHIELD CONDITION (5) GLARE (6) RAIN (7) OTHER: _____ (8) ICE/SNOW (9) UNKNOWN	
(0) NO (1) YES (9) UNKNOWN		VISIBILITY OBSTRUCTION (FOR CASE VEHICLE)	
ROAD, TOTAL TRAFFIC LANES (FOR CASE VEHICLE)		(0) NONE (1) BUILDING (2) SIGN (3) VEGETATION (E.G. BUSHES, SHRUBS) (4) TREE (5) HILL OR CURVE IN ROAD (6) VEHICLE IN TRANSPORT (7) OTHER: _____ (8) PARKED VEHICLE (9) UNKNOWN	
(1) 1-LANE (2) 2-LANES (3) 3-LANES (4) 4 OR MORE LANES (5) DIVIDED, 4 OR MORE LANES (6) PARKING LOT/DRIVEWAY (7) OTHER: _____ (9) UNKNOWN			
INTERSECTING RD, TOTAL LANES			
CHOOSE FROM ABOVE LIST, OR			
(8) NOT APPLICABLE			
TYPE OF ROAD SURFACE			
(1) ASPHALT (2) CONCRETE (3) GRAVEL (4) MORE THAN ONE (CIRCLE EACH) (7) OTHER: _____ (9) UNKNOWN			
ROAD DEFECTS			
(0) NO (1) YES (9) UNKNOWN			



## GENERAL INFORMATION GI-3

GENERAL INFORMATION GI-3		
<b>CRASH DETAILS</b>		
<b>CASE VEHICLE AND OBJECT</b>  (0) NO (1) YES (9) UNKNOWN	$\frac{0}{45}$	<b>HIGHEST POLICE INJURY SEVERITY CODE IN CRASH (NOT JUST CASE VEHICLE)</b>  (0) O - NO INJURY (1) C - POSSIBLE INJURY (2) B - NON-INCAPACITATING INJURY (3) A - INCAPACITATING INJURY (4) K - FATAL (5) INJURED, SEVERITY UNKNOWN (6) DIED PRIOR TO ACCIDENT (7) NON-FATAL INJURY SEVERITY UNKNOWN (9) UNKNOWN
<b>CASE VEHICLE ROLLOVER</b>  (0) NO ROLLOVER (1) YES, FIRST EVENT (2) YES, SUBSEQUENT EVENT (3) YES, SEQUENCE UNKNOWN (9) UNKNOWN	$\frac{0}{46}$	$\frac{3}{53}$
<b>CASE VEHICLE RAN OFF ROADWAY (BEFORE FIRST IMPACT)</b>  (0) NO (1) YES (9) UNKNOWN	$\frac{0}{47}$	<b>DRIVER IMPAIRMENT</b>  <b>DRIVER ALCOHOL INVOLVEMENT (CASE VEHICLE)</b>  (0) NONE (1) YES (9) UNKNOWN/NOT REPORTED/NO DRIVER  <b>DRIVER ALCOHOL BAC (CASE VEHICLE)</b>  (80) NO TEST (90) CHEMICAL TESTS, NO RESULTS (95) AUTOPSY, NO RESULTS (99) UNKNOWN
<b>MOVING CASE VEHICLE AND CONTACTED MOVING VEHICLE</b>  (0) NO (1) YES (9) UNKNOWN	$\frac{1}{48}$	$\frac{80}{55 \quad 56}$
<b>CASE VEHICLE AND CONTACTED STOPPED VEHICLE</b>  (0) NO (1) YES (9) UNKNOWN	$\frac{0}{49}$	<b>WAS THERE MENTION OF DRIVER IMPAIRMENT FOR CASE VEHICLE?</b>  (0) NO (1) YES (9) UNKNOWN
<b>STOPPED CASE VEHICLE AND CONTACTED VEHICLE</b>  (0) NO (1) YES (9) UNKNOWN	$\frac{0}{50}$	<b>LIST IMPAIRMENTS MENTIONED:</b>  _____  _____  _____
<b>TOTAL NUMBER OF VEHICLES CONTACTED BY CASE VEHICLE IN CRASH</b>  (8) 8 OR MORE (9) UNKNOWN	$\frac{1}{51}$	<b>POST - CRASH DETAIL</b>  <b>MANNER CASE VEHICLE LEFT SCENE</b>  (1) DRIVEN (2) TOWED DUE TO DAMAGE (3) TOWED, NOT DUE TO DAMAGE (4) TOWED, REASON UNKNOWN (9) UNKNOWN
<b>ANY FIRE IN THIS CRASH (NOT JUST CASE VEHICLE)</b>  (0) NO (1) YES (9) UNKNOWN	$\frac{0}{52}$	$\frac{2}{58}$

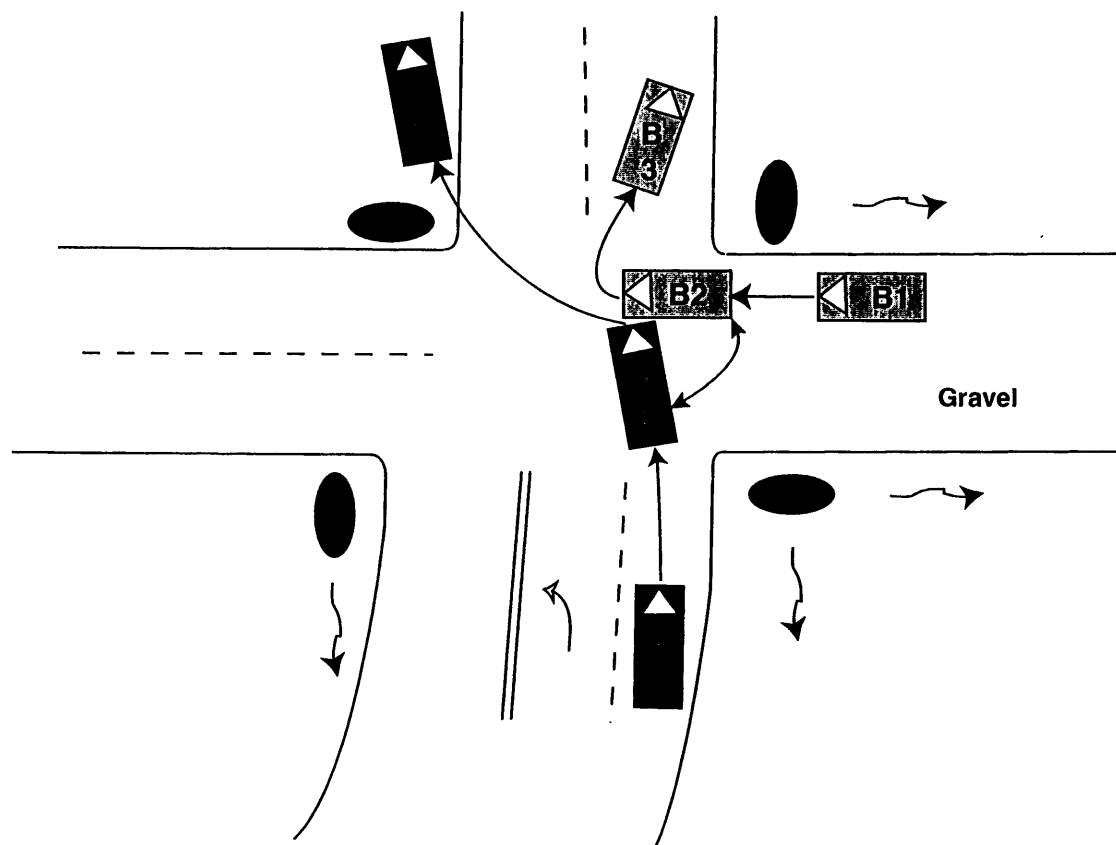
## ACCIDENT SCHEMATIC

ACCIDENT DESCRIPTION: Case vehicle (A) was traveling north  
And failed to stop at a "stop sign", striking  
Vehicle (B) in the front-left with its right-front

CASE VEHICLE (A): 1998 GMC Suburban ⑥  
 OTHER VEHICLE (B): 1993 Buick Regal ④  
 THIRD VEHICLE (C): \_\_\_\_\_



NORTH



Duplicate columns 1-8  
from the previous card.

Module 0 V Format 0 1  
9 10 11 12

OTHER VEHICLE OV-1

MAKE: Buick

CARGO: - 7

MODEL: Regal Custom, 4-door sedan

VIN

13

29

MANUFAC/BODY CODE 2 1 1 2 8  
30 34

MAKE/MODEL CODE 0 4 5 2  
38

MODEL YEAR 1 9 9 3

VEHICLE MASS (kg) 0 0 1 5 1 8  
41 46

IF SEPARATE REPORT WAS MADE,  
GIVE VEHICLE NUMBER 0

NUMBER OF OCCUPANTS 0 1  
(ENTER 9'S IF UNKNOWN) 49

TRAVELING SPEED (km/h) 9 9 5  
52

- (000) PARKED OR STOPPED  
(995) JUST STARTING UP  
(996) BACKING UP  
(997) SPEED NOT EXCESSIVE (BUT UNKNOWN)  
(998) SPEED EXCESSIVE (BUT UNKNOWN)  
(999) UNKNOWN

HIGHEST POLICE INJURY SEVERITY  
CODE FOR THIS VEHICLE

- (0) O - NO INJURY  
(1) C - POSSIBLE INJURY  
(2) B - NON-INCAPACITATING INJURY  
(3) A - INCAPACITATING INJURY  
(4) K - FATAL  
(5) INJURED, SEVERITY UNKNOWN  
(6) DIED PRIOR TO ACCIDENT  
(7) NON-FATAL INJURY  
SEVERITY UNKNOWN  
(8) UNOCCUPIED VEHICLE  
(NOT APPLICABLE)  
(9) UNKNOWN

3  
53

### VEHICLE TYPE

#### PASSENGER VEHICLE

- (02) LARGE  
(03) LIMOUSINE  
(17) PICKUP CAR  
(20) UNKNOWN PASSENGER VEHICLE BODY  
(24) SUB-MINI  
(25) MINI  
(26) SUB-COMPACT  
(27) COMPACT  
(28) INTERMEDIATE  
(29) FULL

2 8  
54 55

#### MULTIPURPOSE PASSENGER VEHICLE

- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",  
E.G. JEEP, BRONCO)  
(15) LARGE UTILITY (WHEELBASE MORE THAN 107",  
E.G. PANEL TRUCK, SUBURBAN)  
(16) PICKUP TRUCK WITH CANOPY/SHELL COVER  
(17) PICKUP CAR WITH CANOPY/SHELL COVER  
(21) MOTOR HOME  
(22) PICKUP TRUCK WITH SLIDE-IN CAMPER  
(23) PICKUP CAR WITH SLIDE-IN CAMPER  
(31) CHASSIS-MOUNTED CAMPER

#### TRUCK

- (11) VAN  
(12) PICKUP TRUCK  
(13) UNKNOWN LIGHT TRUCK  
(15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)  
(16) PICKUP TRUCK WITH CANOPY/SHELL COVER  
(22) PICKUP TRUCK WITH SLIDE-IN CAMPER  
(30) UNKNOWN TRUCK TYPE  
(31) CHASSIS-MOUNTED CAMPER  
(33) DELIVERY VAN (WALK-IN)  
(34) STRAIGHT TRUCK  
(35) TRUCK-TRACTOR (BOBTAIL)  
(36) CHASSIS-CAB  
(37) UNKNOWN HEAVY TRUCK  
(38) TRACTOR & SEMI-TRAILER (SEMI)  
(39) TRUCK (OR SEMI) & FULL TRAILER(S)

#### BUS

- (40) UNKNOWN BUS TYPE  
(41) SCHOOL BUS  
(42) INTERCITY BUS (BETWEEN CITIES)  
(43) TRANSIT BUS (INTRACITY)  
(44) STREETCAR (ON TRACKS)

- (68) TRAIN (CARS)  
(69) LOCOMOTIVE (ENGINE, SWITCHER)

(99) UNKNOWN

WHEELBASE (cm)  
(999) UNKNOWN

2 7 3  
56 57 58

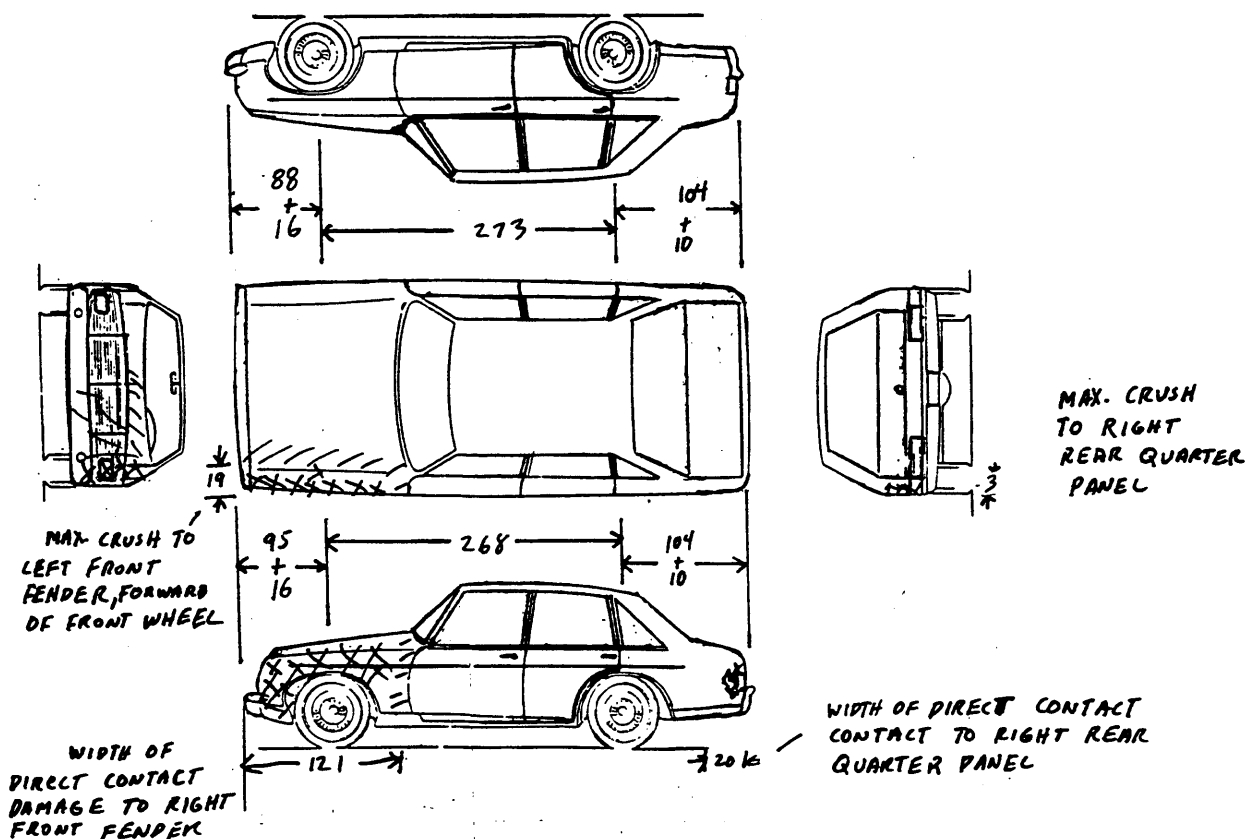
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9 10 11 12

OTHER VEHICLE OV-2

## ORIGINAL SPECIFICATIONS

Wheelbase	<u>273</u> cm	Front Overhang	<u>111</u> cm
Curb Weight	<u>1518</u> kg	Rear Overhang	<u>111</u> cm
Average Track Width	<u>149</u> cm	Undeformed End Width (UEW)	<u>162</u> cm
Overall Length	<u>495</u> cm	Engine Displacement	<u>3.8</u> L
Overall Width (OAW)	<u>184</u> cm	Engine: # of Cylinders	<u>06</u>

## VEHICLE DAMAGE



## FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more  
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL)

999 cm  
35 37Front-End Overlap (Percent) =  $\frac{DDL}{UEW}$ 99 %  
38 39Vehicle Overlap (Percent) =  $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$ 99 %  
40 41



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from the previous card.Module V D Format 0 1  
9 10 11 12

## VEHICLE DESCRIPTION VD-1

MAKE: GMC  
MODEL: Suburban SLE, 4x4 SUVCARGO: \_\_\_\_\_  
\_\_\_\_\_VIN \_\_\_\_\_  
13 \_\_\_\_\_ 29

MANUFAC/BODY CODE

1 1 6 1 5  
30 34

MAKE/MODEL CODE

3 0 0 3  
38

MODEL YEAR

1 9 9 8

VEHICLE MASS (kg)

0 0 2 5 1 8  
41 46

ODOMETER (km)

14,488 miles  
0 2 3 3 1 6  
(ENTER 9'S IF UNKNOWN) 47 52  
(ENTER 8'S IF ELECTRONIC)NUMBER OF OCCUPANTS  
(ENTER 9'S IF UNKNOWN)0 1  
54

TRAVELING SPEED (km/h)

9 9 9  
57

- (000) PARKED OR STOPPED
- 
- (995) JUST STARTING UP
- 
- (996) BACKING UP
- 
- (997) SPEED NOT EXCESSIVE (BUT UNKNOWN)
- 
- (998) SPEED EXCESSIVE (BUT UNKNOWN)
- 
- (999) UNKNOWN

## STOLEN VEHICLE

- (0) NO
- 
- (1) YES
- 
- (8) NOT COLLECTED
- 
- (9) UNKNOWN

8  
60

## BODY STRUCTURE

- (1) BODY & FRAME
- 
- (2) UNITIZED
- 
- (3) INTEGRAL-STUB FRAME
- 
- (4) BODY & PLATFORM FRAME
- 
- (E.G. VW BUG)
- 
- (5) PARTIALLY UNITIZED
- 
- (7) OTHER: \_\_\_\_\_
- 
- (9) UNKNOWN

1  
61

## TRANSMISSION

- (0) NONE
- 
- (1)
- AUTOMATIC
- 
- (2) MANUAL
- 
- (9) UNKNOWN

1  
62

## VEHICLE TYPE

## PASSENGER VEHICLE

- (11) 2-DOOR HARDTOP (NO UPPER B-PILLAR)
- 
- (12) 2-DOOR SEDAN OR COUPE
- 
- (ANY UPPER B-PILLAR)
- 
- (13) 4-DOOR HARDTOP
- 
- (14) 4-DOOR SEDAN
- 
- (15) STATION WAGON
- 
- (16) CONVERTIBLE
- 
- (18) OTHER PASS. VEH.: \_\_\_\_\_
- 
- (19) PASSENGER VEHICLE, TYPE UNKNOWN

2 2  
58 59

## MULTIPURPOSE PASSENGER VEHICLE

- (21) SMALL UTILITY (E.G. JEEP, SCOUT, BRONCO)
- 
- (22) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- 
- (23) VAN, SIZE UNKNOWN
- 
- (24) VAN, SMALL (MINI)
- 
- (25) VAN, LARGE
- 
- (29) MPV, TYPE UNKNOWN
- 
- (30) MOTOR HOME

## TRUCK

- (31) PICKUP TRUCK, UNKNOWN
- 
- (32) PICKUP TRUCK, SMALL (DOWNSIZED)
- 
- (33) PICKUP TRUCK, LARGE

(99) UNKNOWN

LOCATION OF TRANSMISSION  
SELECTOR LEVER

- (1) FLOOR
- 
- (2) CONSOLE
- 
- (3)
- COLUMN
- 
- (7) OTHER: \_\_\_\_\_
- 
- (9) UNKNOWN

3  
63

## STEERING

- (1)
- POWER
- 
- (2) MANUAL
- 
- (9) UNKNOWN

1  
64

## BRAKES

- (1) POWER
- 
- (2) MANUAL
- 
- (9) UNKNOWN

1  
65

## VEHICLE DESCRIPTION VD-2

## TYPE OF BRAKES

- (1) DRUM, ALL WHEELS  
 (2) DISC, FRONT WHEELS  
 (3) DISC, ALL WHEELS  
 (9) UNKNOWN

2  
66

WHEELBASE (cm)  
 (999) Unknown

334  
74 75 76

## BRAKE ANTI-LOCK DEVICE

- (0) NONE INSTALLED  
 (1) TWO-WHEEL  
 (2) FOUR-WHEEL  
 (7) EQUIPPED, UNKNOWN WHEELS  
 (9) UNKNOWN

2  
67

PLASTIC ANTI-LACERATIVE  
 INNER LAYER GLASS EQUIPPED

- (0) NONE  
 (1) WINDSHIELD  
 (2) WINDSHIELD AND SIDE  
 (7) OTHER  
 (9) UNKNOWN

0  
77

## AIR CONDITIONING IN VEHICLE

- (0) NO  
 (1) YES  
 (8) NOT COLLECTED  
 (9) UNKNOWN

8  
68

## TYPE OF DRIVE

- (1) REAR WHEEL  
 (2) FRONT WHEEL  
 (3) FOUR WHEEL  
 (4) ALL WHEEL DRIVE  
 (9) UNKNOWN

1  
69

## FIELD INVESTIGATOR INSTRUCTIONS:

1. INDICATE CRUSHED AREAS BY OUT-LINING NEW PERIMETER OF VEHICLE AND SHADING THE DAMAGED AREAS ON THE LARGE SKETCH ON PAGE VD-3. USE AS MANY SKETCHES AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.
2. ENTER THE DIMENSIONS ON THE SKETCH(ES) MEASURED TO THE POINT OF MAXIMUM PENETRATION BY THE OBJECT(S) CONTACTED. USE THE EXAMPLES BELOW AS A GUIDE.
3. ENTER THE THREE DIMENSIONS TO THE CENTER OF THE WHEELS (WHEELBASE, FRONT AND REAR OVERHANGS) ON BOTH SIDES OF THE CAR.
4. ADD OTHER DIMENSIONS AS NECESSARY TO COMPLETELY DESCRIBE THE DAMAGE.

## EXAMPLES:

## DUAL REAR WHEELS

- (0) NO  
 (1) YES  
 (9) UNKNOWN

0  
70

## ORIGINAL TYPE OF RESTRAINT SYSTEM

- (1) ACTIVE BELT  
 (2) PASSIVE BELT  
 (3) AIRBAG  
 (4) KNEE BOLSTERS  
 (7) OTHER: \_\_\_\_\_  
 (8) NOT APPLICABLE (NOT EQUIPPED)  
 (9) UNKNOWN

3  
71

## EQUIPPED WITH ROLL BAR

- (0) NO  
 (1) YES  
 (9) UNKNOWN

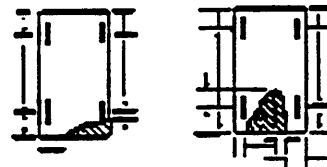
0  
72

## TYPE OF ROOF

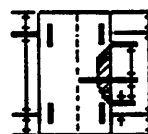
- (0) NONE  
 (1) SOLID  
 (2) T-TOP CLOSED  
 (3) T-TOP OPEN  
 (4) SUN ROOF CLOSED  
 (5) SUN ROOF OPEN  
 (6) CONVERTIBLE CLOSED  
 (7) CONVERTIBLE OPEN  
 (8) OTHER: \_\_\_\_\_  
 (9) UNKNOWN

1  
73

FRONT OR REAR



SIDE



ROOF (REFERENCE TO TOP OF DOOR SILL OR WINDOW SILL)



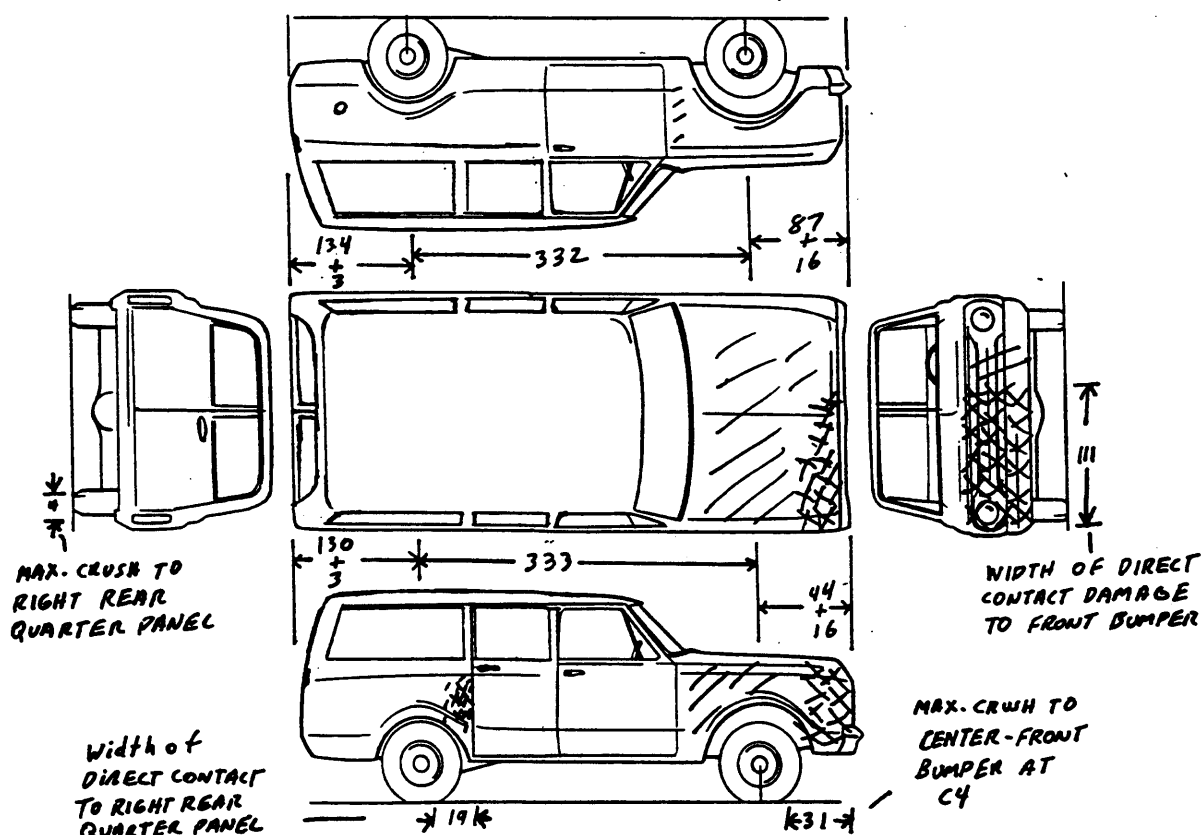
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9 10 11 12

## VEHICLE DESCRIPTION VD-3

## ORIGINAL SPECIFICATIONS

Wheelbase	<u>334</u> cm	Front Overhang	<u>0</u> <u>9</u> <u>2</u> cm 22 24
Curb Weight	<u>2403</u> kg	Rear Overhang	<u>1</u> <u>3</u> <u>4</u> cm 25 27
Average Track Width	<u>1</u> <u>6</u> <u>1</u> cm 13 15	Undeformed End Width (UEW)	<u>1</u> <u>8</u> <u>0</u> cm 28 30
Overall Length	<u>5</u> <u>5</u> <u>8</u> cm 16 18	Engine Displacement	<u>5</u> <u>7</u> L 31 32
Overall Width (OAW)	<u>1</u> <u>9</u> <u>5</u> cm 19 21	Engine: # of Cylinders	<u>0</u> <u>8</u> 33 34

## VEHICLE DAMAGE



## FRONTAL CRASH OVERLAP

Round up for .5. 98 = 98% or more  
Enter % overlap or "99" for missing or N/A.

Direct Damage Length (DDL) 1 0 6 cm  
35 37  
USED UNDAMAGED LENGTH (74cm)

Front-End Overlap (Percent) =  $\frac{DDL}{UEW}$

59%  
38 39

Vehicle Overlap (Percent) =  $\frac{DDL + 1/2 (OAW - UEW)}{OAW}$

58%  
40 41

Duplicate columns 1-8 from the previous card.           Module <u>D</u> <u>A</u> Format <u>0</u> <u>2</u> 9      10          11  12		DAMAGE    DA-1	
<b>PRIMARY</b>	CASE VEHICLE PRIMARY CDC	CONTACTED VEHICLE ASSOCIATED CDC	
EVENT NUMBER	<u>1</u> 13		
IMPACT SPEED (km/h)	<u>9 9 9</u> 14 15 16	<u>9 9 9</u> 35 36 37	
ESTIMATED BY	<u>1</u> 17	<u>1</u> 38	
CRUSH (cm)	<u>0 3 1</u> 18 19 20	<u>0 1 9</u> 39 40 41	
CDC #1	<u>0 1 . F 2 E W . 2</u> 21 27	<u>0 9 . L F E W . 3</u> 42 48	
CDC #2	<u>9 8 . 0 0 0 0 . 0</u> 28 34	<u>9 8 . 0 0 0 0 . 0</u> 49 55	
Duplicate columns 1-8 from the previous card.           Module <u>D</u> <u>A</u> Format <u>0</u> <u>3</u> 9      10          11  12			
<b>SECONDARY</b>	CASE VEHICLE SECONDARY CDC	CONTACTED VEHICLE ASSOCIATED CDC	
EVENT NUMBER	<u>2</u> 13		
IMPACT SPEED (km/h)	<u>9 9 9</u> 14 15 16	<u>9 9 9</u> 35 36 37	
ESTIMATED BY	<u>1</u> 17	<u>1</u> 38	
CRUSH (cm)	<u>0 0 4</u> 18 19 20	<u>0 0 3</u> 39 40 41	
CDC #1	<u>0 3 . R B E N . 1</u> 21 27	<u>0 9 . L B E E . 1</u> 42 48	
CDC #2	<u>9 8 . 0 0 0 0 . 0</u> 28 34	<u>9 8 . 0 0 0 0 . 0</u> 49 55	
<b>CODES</b>			
EVENT NUMBER (8) NOT APPLICABLE (9) UNKNOWN  IMPACT SPEED (998) NOT APPLICABLE (999) UNKNOWN	IMPACT SPEED ESTIMATOR (1) INVESTIGATOR (2) DRIVER (3) POLICE (4) "CRASH" PROGRAM (5) OTHER COMPUTER PROGRAM SPECIFY: _____ (7) OTHER: _____ (8) NOT APPLICABLE (NO VEHICLE/NO IMPACT)	CRUSH (998) NOT APPLICABLE (NO VEHICLE/DAMAGE) (999) UNKNOWN  CDC (9800000) NOT APPLICABLE (9900000) UNKNOWN	

Duplicate columns 1-8  
from the previous card.Module D A Format 0 1  
9 10 11 12

DAMAGE DA-2

## MAXIMUM SHEET METAL CRUSH

(cm) (999) UNKNOWN

FRONT 0 3 1  
13 15RIGHT SIDE 0 0 4  
16 18REAR 0 0 0  
19 21LEFT SIDE 0 0 0  
22 24ROOF 0 0 0  
25 27OTHER 0 0 0  
28 30CHRONOLOGICAL SEQUENCE  
OF DAMAGE/INJURY PRODUCING CRASH EVENTS  
FOR CASE VEHICLENOTE: IF CHRONOLOGICAL ORDER  
IS UNKNOWN, EVENT  
ORDER IS OPTIONAL.DO YOU KNOW THIS TABLE  
TO BE IN CHRONOLOGICAL ORDER? 1  
31(0) NO  
(1) YES

EVENT NUMBER	IMPACT LOCATION (1) ON ROADWAY (2) SHOULDER/MEDIAN/GORE (3) ON ROADSIDE (4) OUTSIDE ROADSIDE RIGHT-OF-WAY (5) OTHER (6) OFF ROADWAY, LOC. UNK. (9) UNKNOWN	IMPACT CONFIGURATION FOR CODES, SEE TABLE ON PAGE DA-3.	OBJECT/VEHICLE CONTACTED FOR CODES, SEE TABLE ON PAGE DA-4.
# 1	<u>1</u> 32	<u>13</u> 34	<u>28</u> 36
#2	<u>1</u> 37	<u>43</u> 39	<u>28</u> 41
#3	— 42	— 44	— 46
#4	— 47	— 49	— 51
#5	— 52	— 54	— 56
#6	— 57	— 59	— 61
#7	— 62	— 64	— 66

DAMAGE DA-3

CODES FOR  
IMPACT CONFIGURATIONFRONT OF CASE VEHICLE

- (11) AND FRONT OF CONTACTED VEHICLE
- (13) AND SIDE OF CONTACTED VEHICLE
- (14) AND REAR OF CONTACTED VEHICLE
- (16) ENDSWIPED BY CONTACTED VEHICLE
- (17) AND OBJECT
- (19) AND UNKNOWN OTHER VEHICLE CONFIGURATION

LEFT SIDE OF CASE VEHICLE

- (21) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (22) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (23) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (24) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (25) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (26) SIDSWIPED BY CONTACTED VEHICLE
- (27) AND OBJECT
- (29) AND UNKNOWN OTHER VEHICLE CONFIGURATION

REAR OF CASE VEHICLE

- (31) AND FRONT OF CONTACTED VEHICLE
- (33) AND SIDE OF CONTACTED VEHICLE
- (34) AND REAR OF CONTACTED VEHICLE
- (36) ENDSWIPED BY CONTACTED VEHICLE
- (37) AND OBJECT
- (39) AND UNKNOWN OTHER VEHICLE CONFIGURATION

RIGHT SIDE OF CASE VEHICLE

- (41) AND FRONT OF CONTACTED VEHICLE (TYPE T)
- (42) AND FRONT OF CONTACTED VEHICLE (TYPE L)
- (43) AND SIDE OF CONTACTED VEHICLE (NOT SIDESWIPE)
- (44) AND REAR OF CONTACTED VEHICLE (TYPE T)
- (45) AND REAR OF CONTACTED VEHICLE (TYPE L)
- (46) SIDSWIPED BY CONTACTED VEHICLE
- (47) AND OBJECT
- (49) AND UNKNOWN OTHER VEHICLE CONFIGURATION

## OTHER

- (57) VEHICLE TO OBJECT
- (58) VEHICLE TO VEHICLE
- (59) VEHICLE TO VEHICLE, CONFIGURATION UNKNOWN

## ROLLOVER

- (61) LESS THAN 360°
- (62) 360° OR MORE
- (69) DETAILS UNKNOWN

## UNKNOWN

- (99) IMPACT TYPE UNKNOWN

DAMAGE DA-4

## CODES FOR VEHICLE/OBJECT CONTACTED

## VEHICLE/OBJECT GROUPS

- (00) NO OBJECT
- (01) - (39) PASSENGER VEHICLE & TRUCK
- (40) - (69) OTHER VEHICLE
- (70) - (76) PEDESTRIAN & ON-ROADWAY OBJECT
- (77) - (97) OFF-ROADWAY OBJECT
- (98) OTHER (DESCRIBE)
- (99) UNKNOWN

## PASSENGER VEHICLE

- (02) LARGE
- (03) LIMOUSINE
- (17) PICKUP
- (20) UNKNOWN PASSENGER VEHICLE BODY
- (24) SUB-MINI
- (25) MINI
- (26) SUB-COMPACT
- (27) COMPACT
- (28) INTERMEDIATE
- (29) FULL

## SIZE

## WHEELBASE

SUB-MINI	< 2286 mm (< 90")
MINI	2286 - 2412 mm (90" - 94.9")
SUB-COMPACT	2413 - 2539 mm (95" - 99.9")
COMPACT	2540 - 2666 mm (100" - 104.9")
INTERMEDIATE	2667 - 2793 mm (105" - 109.9")
FULL	2794 - 2920 mm (110" - 114.9")
LARGE	2921 - 3174 mm (115" - 124.9")
LIMOUSINE	> 3175 mm (> 125")

## MULTIPURPOSE PASSENGER VEHICLE

- (11) SMALL VAN (MINI)
- (12) PICKUP
- (14) SMALL UTILITY (WHEELBASE LESS THAN 107",  
E.G. JEEP, BRONCO)
- (15) LARGE UTILITY (WHEELBASE MORE THAN 107",  
E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (17) PICKUP CAR WITH CANOPY/SHELL COVER
- (21) MOTOR HOME
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (23) PICKUP CAR WITH SLIDE-IN CAMPER
- (31) CHASSIS-MOUNTED CAMPER

## TRUCK

- (11) SMALL VAN (E.G. ECONOLINE)
- (12) PICKUP TRUCK
- (13) UNKNOWN LIGHT TRUCK
- (15) LARGE UTILITY (E.G. PANEL TRUCK, SUBURBAN)
- (16) PICKUP TRUCK WITH CANOPY/SHELL COVER
- (22) PICKUP TRUCK WITH SLIDE-IN CAMPER
- (30) UNKNOWN TRUCK TYPE
- (31) CHASSIS-MOUNTED CAMPER
- (33) DELIVERY VAN (WALK-IN)
- (34) STRAIGHT TRUCK
- (35) TRUCK-TRACTOR (BOBTAIL)
- (36) CHASSIS-CAB
- (37) UNKNOWN HEAVY TRUCK
- (38) TRACTOR & SEMI-TRAILER (SEMI)
- (39) TRUCK (OR SEMI) & FULL TRAILER(S)

## BUS

- (40) UNKNOWN BUS TYPE
- (41) SCHOOL BUS
- (42) INTERCITY BUS (BETWEEN CITIES)
- (43) TRANSIT BUS (INTRACITY)
- (44) STREETCAR (ON TRACKS)

## MOTORCYCLE

- (50) UNKNOWN MOTORCYCLE TYPE
- (51) 1 - 75 cc
- (52) 76 - 125 cc
- (53) 126 - 250 cc
- (54) 251 - 500 cc
- (55) 501 - 750 cc
- (56) 751 cc +
- (57) 3-WHEELS (OR WITH SIDECAR)

## SPECIAL PURPOSE VEHICLE

- (60) UNKNOWN/OTHER SPECIAL VEHICLE (DESCRIBE)
- (61) SNOWMOBILE
- (62) ATV (ALL TERRAIN VEHICLE)
- (63) AMPHIBIOUS VEHICLE
- (64) FARM VEHICLE
- (65) CONSTRUCTION VEHICLE
- (66) TRAILER, PRIVATE (CAMPER)
- (67) TRAILER, COMMERCIAL (CARGO)
- (68) TRAIN (CARS)
- (69) LOCOMOTIVE (ENGINE, SWITCHER)

## OBJECT

- (70) PEDESTRIAN
- (71) BICYCLIST, OTHER PEDALCYCLIST
- (72) PEDESTRIAN CONVEYANCE (E.G. PERSON RIDING  
ANIMAL, CART)
- (73) LARGE ANIMAL
- (74) FALLEN OBJECT (E.G. OBJECT DISLODGED FROM  
OTHER VEHICLE, FALLEN TREE, ROCKS)
- (75) ROCKS
- (76) CONSTRUCTION EQUIPMENT (EXCLUDING (65))
- (77) SIGN POST, UTILITY POLE, TREE..
- (78) DITCH
- (79) EMBANKMENT, SNOWBANK, RR TRACKS RR X
- (80) GROUND (ROLLOVER ONLY)
- (81) CURB (DAMAGE PRODUCING IMPACTS ONLY)
- (82) CULVERT
- (83) FENCE
- (84) HYDRANT, SHORT POST, STUMP
- (85) SMALL POST/TREE, RURAL MAIL BOX, MILE  
MARKER, DELINEATOR
- (86) BUILDING
- (87) PIER, PILLAR, BRIDGE SUPPORT
- (88) ABUTMENT, RETAINING WALL
- (89) BRIDGE RAIL
- (90) GUARD RAIL, LEADING SECTION
- (91) GUARD RAIL, MIDDLE OR UNKNOWN
- (92) GUARD RAIL, TRAILING SECTION
- (93) GUARD POST (TIMBER, METAL, CONCRETE)
- (94) CABLE, FENCE BARRIER
- (95) CONCRETE BARRIER (MEDIAN)
- (96) IMPACT ATTENUATOR
- (97) BREAKAWAY FEATURES

Duplicate columns 1-8  
from the previous card.Module C R Format 0 1  
9 10 11 12CRASH RECONSTRUCTION CR-1  
for  $\Delta V$ 

	CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT	
	CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE
EVENT NUMBER	<u>1</u> 13		<u>2</u> 47	
$\Delta V$ (km/h) TOTAL	<u>020</u> 14 15 16	<u>029</u> 32 33 34	<u>9—</u> 48 49 50	<u>9—</u> 66 67 68
LONGITUDINAL*	<u>-020</u> 17 20	<u>-005</u> 35 38	<u>9—</u> 51 54	<u>9—</u> 69 72
LATERAL*	<u>-003</u> 21 24	<u>+029</u> 39 42	<u>9—</u> 55 58	<u>9—</u> 73 76
* NOTE: THESE $\Delta V$ COMPONENTS MUST INCLUDE SIGN.				
EXAMPLES: 10 km/h = $\pm 010$ -7 km/h = $-007$				
ENERGY DISSIPATED BY CRUSH (kj)	<u>0073</u> 25 28	<u>0025</u> 43 46	<u>9—</u> 59 62	<u>9—</u> 77 80
RECONSTRUCTION				
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL	<u>22</u> 29 30		<u>08</u> 63 64	
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL				
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL				
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL				
NOT RECONSTRUCTED BECAUSE				
(02) INSUFFICIENT DATA				
(03) EXCESSIVE UNDERRIDE/ OVERRIDE				
(04) ROLLOVER				
(05) VAULTING				
(06) OTHER TRAVEL IN MORE THAN ONE PLANE				
(07) NON-HORIZONTAL FORCE				
(08) SIDESWIPE-TYPE DAMAGE				
(09) YIELDING OBJECT				
(10) OTHER: _____				
(11) AT LEAST ONE VEHICLE BEYOND SCOPE				
(12) OTHER VEHICLE NOT INSPECTED				
MODE				
(1) CDC ONLY				
(2) CDC & DETAILED DAMAGE	<u>2</u> 31		<u>5</u> 65	
(3) TRAJECTORY & CDC				
(4) TRAJECTORY & CDC & DETAILED DAMAGE				
(5) NOT RECONSTRUCTED				
COMPUTER PROGRAM SPECIFY: _____				



Duplicate columns 1-8 from the previous card.		Module <u>C</u> <u>R</u> Format <u>0</u> <u>2</u> 9 10 11 12		CRASH RECONSTRUCTION CR-2 for EBS			
		CASE VEHICLE PRIMARY IMPACT		CASE VEHICLE SECONDARY IMPACT			
		CASE VEHICLE	CONTACTED VEHICLE	CASE VEHICLE	CONTACTED VEHICLE		
EVENT NUMBER		<u>1</u> 13		<u>2</u> 47			
EBS (km/h)	TOTAL	<u>031</u> 14 15 16	<u>019</u> 32 33 34	<u>9</u> — 48 49 50	<u>9</u> — 66 67 68		
	LONGITUDINAL*	<u>-030</u> 17 20	<u>-003</u> 35 38	<u>9</u> — 51 54	<u>9</u> — 69 72		
	LATERAL*	<u>-005</u> 21 24	<u>+019</u> 39 42	<u>9</u> — 55 58	<u>9</u> — 73 76		
NOTE: THESE EBS COMPONENTS MUST INCLUDE SIGN.							
EXAMPLES: 10 km/h = ±010 -7 km/h = -007							
ENERGY DISSIPATED BY CRUSH (kJ)		<u>0073</u> 25 28	<u>0025</u> 43 46	<u>9</u> — 59 62	<u>9</u> — 77 80		
RECONSTRUCTION							
(01) RECONSTRUCTED, UNKNOWN CONFIDENCE LEVEL		<u>22</u> 29 30		<u>08</u> 63 64			
(21) RECONSTRUCTED, LOW CONFIDENCE LEVEL							
(22) RECONSTRUCTED, MODERATE CONFIDENCE LEVEL							
(23) RECONSTRUCTED, HIGH CONFIDENCE LEVEL							
NOT RECONSTRUCTED BECAUSE							
(02) INSUFFICIENT DATA							
(03) EXCESSIVE UNDERRIDE/ OVERRIDE							
(04) ROLLOVER							
(05) VAULTING							
(06) OTHER TRAVEL IN MORE THAN ONE PLANE							
(07) NON-HORIZONTAL FORCE							
(08) SIDESWIPE-TYPE DAMAGE							
(09) YIELDING OBJECT							
(10) OTHER: _____							
(11) AT LEAST ONE VEHICLE BEYOND SCOPE							
(12) OTHER VEHICLE NOT INSPECTED							
MODE							
(1) CDC ONLY		<u>2</u> 31		<u>5</u> 65			
(2) CDC & DETAILED DAMAGE							
(3) TRAJECTORY & CDC							
(4) TRAJECTORY & CDC & DETAILED DAMAGE							
(5) NOT RECONSTRUCTED							
COMPUTER PROGRAM SPECIFY: _____							

Duplicate columns 1-8  
from the previous card.Module C R Format 0 3  
9 10 11 12

## CRASH RECONSTRUCTION CR-3

- NOTES:
1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
  2. MEASURE  $C_1$  TO  $C_6$  FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
  3.  $D$  IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
  4. USE THE CENTER OF THE WHEELBASE AS THE CG.

CASE VEHICLE

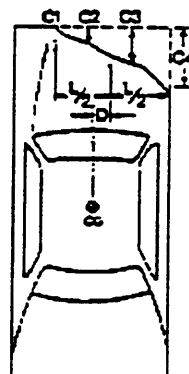
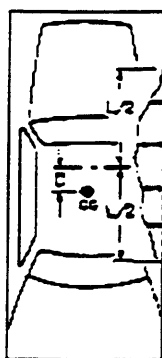
LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L
1	Begin Rt. BC 111 cm to Lt	BC to BC Front
2	39 cm forward of Rt. rear axle	same

PLANE:

- (1) Bumper
- (2) Above Bumper
- (3) Sill
- (4) Above Sill
- (5) Other \_\_\_\_\_
- (9) Unknown



DL 111  
UDL 74

## CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card).

Duplicate columns 1 - 12 for each completed line.

Specific Impact Number	Plane of Impact C-Measur.	Direct Damage		Field L	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	±D
		Length (DDL)	Max Crush								
1	1	111	34	175	2	7	31	34	35	46	+37
			-3		-16	-8	-3	-3	-8	-16	
1	1	111	031	175	000	000	028	031	007	030	+037
13	14	15 16 17	18 19 20	21 22 23	24 25 26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44 45
2	4		4								
2	4	019	004	019	999	999	999	999	999	999	+999

Duplicate columns 1-8  
from the previous card.Module C R Format 0 4  
9 10 11 12

## CRASH RECONSTRUCTION CR-4

- NOTES:
1. ENTER CRASH RECONSTRUCTION DAMAGE MEASUREMENTS IN CENTIMETERS.
  2. MEASURE  $C_1$  TO  $C_6$  FROM DRIVER TO PASSENGER SIDE IN FRONT OR REAR IMPACTS, REAR TO FRONT IN SIDE IMPACTS.
  3.  $D$  IS POSITIVE IF MEASURED TO A POINT FORWARD OF OR TO THE RIGHT OF THE CG.
  4. USE THE CENTER OF THE WHEELBASE AS THE CG.

OTHER VEHICLE

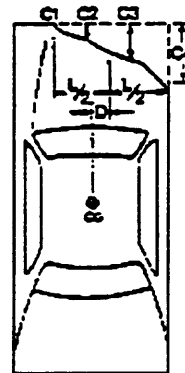
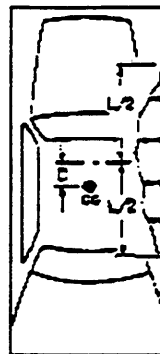
LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line, or an undamaged axle for side impacts.

Specific Impact No.	Location of Direct Damage	Location of Field L
1	Begin Lt. fr. BC 121 cm rearward	Begin Lt. fr BC 124 cm rearward
2	Begin Lt. RR. BC 20 cm forward	Begin Lt. RR BC 23 cm forward

PLANE:

- (1) Bumper  
(2) Above Bumper  
(3) Sill  
(4) Above Sill  
(5) Other \_\_\_\_\_  
(9) Unknown



DL \_\_\_\_\_

UDL \_\_\_\_\_

## CRUSH PROFILE IN CENTIMETERS

NOTE: Each line in the table below is a separate record (card).

Duplicate columns 1 - 12 for each completed line.

Specific Impact Number	Plane of Impact C-Measur.	Direct Damage		Field L	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>	±D
		Length (DDL)	Max Crush								
1	4	121	19	124	0	5	10	17	13	6	+182
1	4	121	019	124	000	005	010	017	013	006	+182
13	14	15 16 17	18 19 20	21 22 23	24 25 26	27 28 29	30 31 32	33 34 35	36 37 38	39 40 41	42 43 44 45
2	4	20	3	23							
2	4	020	003	023	999	999	499	999	999	999	-999

Duplicate columns 1-8  
from the previous card.

Module W T Format 0 1  
9 10 11 12

# WHEELS AND TIRES

WT-1

## WHEELS--DAMAGED

- (0) NO  
(1) YES  
(9) UNKNOWN

*flat*

LF 0  
13

RF 0

RR 0

LR 0  
16

## TIRE TREAD TYPE

- (1) REGULAR  
(2) SNOW  
(3) SLICKS  
(4) ALL WEATHER (MS)  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

LF 4  
17

RF 4

RR 4

LR 4  
20

## CARCASS CONSTRUCTION

- (1) BIAS  
(2) BELTED BIAS  
(3) RADIAL  
(4) ELLIPTICAL  
(5) HI PRESSURE SPARE  
(6) SPACE SAVER SPARE  
(7) OTHER: \_\_\_\_\_  
(9) UNKNOWN

LF 3  
21

RF 3

RR 3

LR 3  
24

SIZE (NOT DOT CODE. IF UNKNOWN, USE 9'S)

LF P 2 4 5 7 5 R 1 6  
25

RF ↓  
35

RR ↓  
45

LR ↓  
55

IF VEHICLE IS EQUIPPED WITH DUAL  
WHEELS, COMPLETE FOR OUTER WHEELS  
AND MAKE NOTES ON INNER WHEELS.

NOTES: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Duplicate columns 1-8  
from the previous card.

Module F I Format 0 1  
9 10 11 12

# FUEL AND FUEL TANKS FT-1

## TYPE OF PROPULSIVE FUEL

- (1) GASOLINE
- (2) DIESEL OIL
- (3) LPG
- (4) ELECTRIC
- (7) OTHER: \_\_\_\_\_
- (9) UNKNOWN

1  
13

## AUXILIARY TANK TYPE

- (1) OEM TANK
- (2) AFTER MARKET TANK
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

8  
21

## MAIN TANK LOCATION

1 2 2  
14 16

## AUXILIARY TANK LOCATION

8 8 8  
22 24

## MAIN FILLER CAP LOCATION

1 1 3  
17 19

## AUXILIARY FILLER CAP LOCATION

8 8 8  
25 27

## MAIN TANK MATERIAL

1  
20

## AUXILIARY TANK MATERIAL

8  
28

## TANK AND FILLER CAP LOCATION CODES

### FIRST DIGIT (LONGITUDINAL)

- (1) BEHIND KICK-UP
- (2) IN KICK-UP
- (3) BETWEEN KICK-UP & COWL
- (4) FORWARD OF COWL
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

### SECOND DIGIT (LATERAL)

- (1) LEFT OF FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) RIGHT OF FRAME
- (4) DUAL, RIGHT & LEFT TANKS
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

### THIRD DIGIT (VERTICAL)

- (1) BELOW FRAME
- (2) WITHIN FRAME OR CENTERED
- (3) ABOVE FRAME
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

## TANK MATERIAL CODES

- (1) STEEL
- (2) ALUMINUM
- (3) PLASTIC
- (7) OTHER
- (8) NOT APPLICABLE (NOT EQUIPPED)
- (9) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module F 1 Format 0 1  
9 10 11 12

FUEL LEAKAGE FL-1

# DID FUEL LEAKAGE RESULT FROM A CRASH EVENT

(0) NO KNOWN LEAKAGE SKIP PAGE.

0  
13

(1) YES COMPLETE PAGE.

LEAK NUMBER	I LEAKING COMPONENT	II COMPONENT SOURCE	III TYPE OF DAMAGE	IV SEVERITY OF DAMAGE	V LOCATION OF LEAK	EVENT NUMBER
#1	<u>    </u> <u>    </u> 14 15	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 21
#2	<u>    </u> <u>    </u> 22 23	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 29
#3	<u>    </u> <u>    </u> 30 31	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 37
#4	<u>    </u> <u>    </u> 38 39	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 45
#5	<u>    </u> <u>    </u> 46 47	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u> <u>    </u>	<u>    </u> 53

## I LEAKING COMPONENT

### TANK AREA

- (11) MAIN FUEL TANK (INCLUDING VAPOR RECOVERY DOME)
- (12) AUXILIARY FUEL TANK
- (13) MAIN TANK FILLER TUBE
- (14) MAIN TANK CAP (GAS CAP)
- (15) AUXILIARY TANK FILLER TUBE
- (16) AUXILIARY TANK CAP (GAS CAP)
- (19) TANK AREA, DETAILS UNKNOWN

### DELIVERY SYSTEM

- (21) FUEL FEED LINE (MAIN TANK TO FUEL PUMP)
- (22) FUEL FEED LINE (AUXILIARY TANK TO FUEL PUMP)
- (23) FUEL RETURN LINE (FUEL PUMP TO TANK)
- (24) INLINE FUEL FILTER
- (25) FUEL LINE (PUMP TO CARBURETOR OR INJECTOR PUMP)
- (26) CARBURETOR TO INJECTOR PUMP
- (27) FUEL PUMP
- (29) DELIVERY SYSTEM, DETAILS UNKNOWN

### EVAPORATIVE EMISSION CONTROL SYSTEM

- (31) ATMOSPHERIC VENT PIPE (NON-EEC EQUIPPED)
- (32) EEC PIPE (VAPOR CANISTER TO CARBURETOR)

### EEC SYSTEM (CONTINUED)

- (33) VAPOR RECOVERY HOSES (CANISTER TO CARBURETOR)
- (34) LIQUID-VAPOR SEPARATOR (UNLESS PART OF TANK)
- (35) CANISTER
- (39) EEC SYSTEM, DETAILS UNKNOWN

- (49) ENGINE COMPARTMENT, COMPONENT UNKNOWN
- (99) COMPONENT UNKNOWN

## II COMPONENT SOURCE

- (1) OEM
- (2) AFTER MARKET
- (9) UNKNOWN

## III TYPE OF DAMAGE

- (1) DENTED/CRUSHED
- (2) PUNCTURED
- (3) RUPTURED
- (4) SEVERED/GROSS TEARS
- (5) DISCONNECTED/DEFEATED
- (9) UNKNOWN

## IV SEVERITY OF DAMAGE

- (1) MINOR
- (2) MODERATE
- (3) SEVERE
- (4) DISCONNECTED/DEFEATED
- (9) UNKNOWN

## V LOCATION OF LEAK

### FIRST DIGIT (LONGITUDINAL LOCATION)

- (1) F, FORWARD OF COWL
- (2) P, BETWEEN COWL & REAR BULKHEAD
- (3) B, BEHIND REAR BULKHEAD
- (4) Y, F, & P
- (5) Z, P, & B
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

### SECOND DIGIT (LATERAL LOCATION)

- (1) L, LEFT
- (2) C, CENTER
- (3) R, RIGHT
- (4) Y, LEFT CENTER (L & C)
- (5) Z, RIGHT CENTER (R & C)
- (6) D, DISTRIBUTED (F, P & B)
- (9) UNKNOWN

Duplicate columns 1-8  
from the previous card.

Module F R Format 0 1  
9 10 11 12

FIRE FR-1

WAS THERE FIRE IN OR ON CASE VEHICLE?

(0) NO SKIP PAGE.

0  
13

(1) YES COMPLETE PAGE.

DID FIRE START IN CASE VEHICLE?

- (0) NO  
(1) YES  
(9) UNKNOWN

14

SEVERITY OF FIRE DAMAGE

- (1) MINOR  
(2) MODERATE  
(3) SEVERE  
(9) UNKNOWN

16

FLAME PROPOGATION RATE

- (1) RAPID/EXPLOSIVE  
(2) SLOW/MODERATE  
(9) UNKNOWN

15

DID AN INJURY TO CASE  
VEHICLE OCCUPANT RESULT FROM  
FIRE IN OR ON CASE VEHICLE?

- (0) NO  
(1) YES  
(9) UNKNOWN

17

PROVIDE NOTES IF FIRE OCCURRED.

Duplicate columns 1-8  
from the previous card.Module E D Format 0 1  
9 10 11 12

## EXTERIOR DAMAGE

ED-1

## HOOD PERFORMANCE

FOR THE FOLLOWING, USE CODES:

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(9) UNKNOWN

HOOD LATCH(ES)-

-RELEASED

0  
13

-DAMAGED

1  
14

-JAMMED

1  
15

HOOD HINGES-

-LEFT,

DAMAGED

0  
16

-LEFT,

SEPARATED  
(COMPLETE)8  
17

-RIGHT,

DAMAGED

0  
18

-RIGHT,

SEPARATED  
(COMPLETE)8  
19

HOOD REMAINED ON VEHICLE

1  
20

REAR EDGE OF HOOD-

-ELEVATED

1  
21

-CONTACTED WINDSHIELD

0  
22

-PENETRATED WINDSHIELD

8  
23

HOOD LATCH LOCATION

- (1) FRONT OF VEHICLE  
(2) COWL AREA  
(3) SIDE  
(8) NOT APPLICABLE  
(9) UNKNOWN

1  
24

## STEERING COL FLEXIBLE COUPLING

FLEXIBLE COUPLING TYPE

- (0) NONE  
(1) FLEXIBLE MATERIAL  
(2) POT  
(3) SINGLE U-JOINT  
(4) DOUBLE U-JOINT  
(5) FLEXIBLE CABLE  
(6) COMBINATION OF ABOVE  
(CIRCLE EACH)  
(7) OTHER: \_\_\_\_\_  
(8) EQUIPPED, TYPE UNKNOWN  
(9) UNKNOWN, IF EQUIPPED

9  
25

COUPLING-

-DAMAGED

9  
27(USE CODES  
FROM HOOD  
PERFORMANCE)-SEPARATED  
(COMPLETE)9  
28

## ENG COMPART TELESCOPING UNIT

TYPE OF UNIT

- (00) NONE INSTALLED  
(01) - (07) SEE UNITS ON PAGE ED-2  
(88) NOT COLLECTED  
(97) OTHER: \_\_\_\_\_  
(98) EQUIPPED, TYPE UNKNOWN  
(99) UNKNOWN IF EQUIPPED

8 8  
29 30

ORIGINAL LENGTH (mm)

F (OR H): \_\_\_\_\_

TELESCOPED LENGTH (mm)

G: \_\_\_\_\_

DIFFERENCE (mm)

F (OR H) - G

(IF LESS THAN 15mm, ENTER "000".)

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO  
COMPRESSION  
(992) COMPRESSED, AMOUNT  
UNKNOWN  
(993) DEVICE EXTENDED  
(997) UNABLE TO BE MEASURED  
(998) NOT APPLICABLE (NOT  
EQUIPPED)  
(999) UNKNOWN

8 8 8  
31 32 33

## ENGINE OR TRANSMISSION MOUNT

SEPARATION (COMPLETE)

- (0) NO  
(1) YES  
(9) UNKNOWN

0  
25



## EXTERIOR DAMAGE

ED-2

## LEFT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

0  
 34

## LEFT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO  
 (1) YES  
 (4) NO SEPARATION, BUT DAMAGED  
 (8) NOT APPLICABLE (NOT EQUIPPED)  
 (9) UNKNOWN

-A-PILLAR, UPPER

0  
 35

LOWER

0  
 36

-B-PILLAR, UPPER

0  
 37

LOWER

0  
 38

-C-PILLAR, UPPER

0  
 39

LOWER

0  
 40

-D-PILLAR, UPPER

0  
 41

LOWER

0  
 42

## LEFT DOORS

HOW DID DOORS  
OPEN DURING COLLISION?

USE CODES:

(0) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION  
 (2) DOOR-LATCH SEPARATION  
 (3) LATCH-STRIKER SEPARATION  
 (4) STRIKER-PILLAR SEPARATION  
 (5) BODY DISTORTION  
 (6) COMBINATION OF ABOVE  
 (CIRCLE EACH)  
 (7) OPENED, REASON UNKNOWN

(8) NOT APPLICABLE (NO DOOR)

(9) UNKNOWN

-FRONT

0  
 43

-REAR

0  
 44

## DOORS JAMMED CLOSED-

USE CODES:

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

-FRONT

0  
 45

-REAR

0  
 46

## EXTERIOR DAMAGE

ED-3

## REAR DOOR

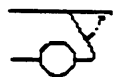
## REAR DOOR TYPE

- (0) NO DOOR (INCLUDES PICKUPS)  
 (1) HATCHBACK  
 (2) ONE-WAY TAILGATE  
 (3) TWO-WAY TAILGATE  
 (4) CLAMSHELL/DISAPPEARING TAILGATE  
 (5) SINGLE DOOR  
 (6) DOUBLE DOOR  
 (9) UNKNOWN

Hatchback



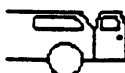
One-way



Two-way



or



Clamshell



Single door



Double door



## HOW DID DOOR OPEN DURING COLLISION?

- (0) DOOR DID NOT OPEN

## OPENED BECAUSE OF

- (1) HINGE AREA SEPARATION  
 (2) DOOR-LATCH SEPARATION  
 (3) LATCH-STRIKER SEPARATION  
 (4) STRIKER-PILLAR SEPARATION  
 (5) BODY DISTORTION  
 (6) COMBINATION OF ABOVE  
 (CIRCLE EACH)  
 (7) OPENED, REASON UNKNOWN  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

## DOOR JAMMED CLOSED

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

6  
47

0  
48

0  
49

## OTHER REAR DAMAGE

## WAS PARTITION TO LUGGAGE AREA DAMAGED DURING COLLISION?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

8  
50

## SPARE TIRE

- (0) NO SPARE TIRE  
 (1) NOT ATTACHED BEFORE COLLISION  
 (2) ATTACHED, NOT SEPARATED IN COLLISION  
 (3) ATTACHED, SEPARATED DUE TO COLLISION  
 (8) NOT COLLECTED  
 (9) UNKNOWN

8  
51

## TRAILER HITCH TYPE

- (0) NO HITCH

4  
52

## BALL-AND-SOCKET TYPES

- (1) TEMPORARY FRAMEWORK (E.G. RENTAL CLAMP-ON)  
 (2) BUMPER-MOUNT ONLY (E.G. LIGHT TRUCK)  
 (3) BUMPER-AND-FRAME (BUT NON-EQUALIZING)  
 (4) LOAD EQUALIZING

## OTHER TYPES

- (5) RING-AND-PINTLE  
 (6) FIFTH-WHEEL (INCL. P/U)  
 (7) OTHER (E.G. CLEVIS-AND-PIN)

- (8) EQUIPPED, TYPE UNKNOWN  
 (9) UNKNOWN IF EQUIPPED

TRAILER TYPE  
(AT TIME OF COLLISION)

- (0) NO TRAILER  
 (1) TRAVEL-TRAILER/CAMPER  
 (2) MOBILE HOME  
 (3) BOAT/SNOWMOBILE/ATV TRAILER  
 (4) UTILITY TRAILER  
 (5) TOWED CAR  
 (7) OTHER: \_\_\_\_\_  
 (8) TRAILER, TYPE UNKNOWN  
 (9) UNKNOWN

0  
53

## EXTERIOR DAMAGE

ED-4

## RIGHT-SIDE BODY MOUNT

DID BODY MOUNT SEPARATE?

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE  
 (9) UNKNOWN

0  
 54

## RIGHT PILLARS

PILLARS SEPARATED COMPLETELY -

USE CODES:

- (0) NO  
 (1) YES  
 (4) NO SEPARATION, BUT DAMAGED  
 (8) NOT APPLICABLE (NOT EQUIPPED)  
 (9) UNKNOWN

-A-PILLAR, UPPER

0  
 55

LOWER

0  
 56

-B-PILLAR, UPPER

0  
 57

LOWER

0  
 58

-C-PILLAR, UPPER

0  
 59

LOWER

0  
 60

-D-PILLAR, UPPER

0  
 61

LOWER

0  
 62

## RIGHT DOORS

HOW DID DOORS  
OPEN DURING COLLISION?

USE CODES:

(00) DOOR DID NOT OPEN

OPENED BECAUSE OF

- (01) HINGE AREA SEPARATION  
 (02) DOOR-LATCH SEPARATION  
 (03) LATCH-STRIKER SEPARATION  
 (04) STRIKER-PILLAR SEPARATION  
 (05) BODY DISTORTION  
 (06) COMBINATION OF ABOVE  
 (CIRCLE EACH)  
 (07) OPENED, REASON UNKNOWN  
 (11) VAN RIGHT-REAR DOOR OPENED  
 (ANY MECHANISM)

(98) NOT APPLICABLE (NO DOOR)

(99) UNKNOWN

-FRONT

0 0  
 63 64

-REAR

0 0  
 65 66

## DOORS JAMMED CLOSED-

USE CODES:

- (0) NO  
 (1) YES  
 (8) NOT APPLICABLE (NO DOOR)  
 (9) UNKNOWN

-FRONT

0  
 67

-REAR

0  
 68

## VAN REAR DOOR TYPE

- (0) VAN, NO REAR DOOR  
 (1) TRACK (SLIDING) - RIGHT SIDE  
 (2) SINGLE-HINGED - RIGHT SIDE  
 (3) DOUBLE-HINGED - RIGHT SIDE  
 (4) TRACK (SLIDING) - RIGHT & LEFT SIDE  
 (5) SINGLE-HINGED - RIGHT & LEFT SIDE  
 (6) DOUBLE-HINGED - RIGHT & LEFT SIDE  
 (7) TRACK AND HINGED COMBINATION  
 (8) NOT APPLICABLE (NOT A VAN)  
 (9) UNKNOWN

8  
 69

## EXTERIOR DAMAGE

ED-5

## WINDSHIELD DAMAGE

## WINDSHIELD CRACKED

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(9) UNKNOWN

WINDSHIELD BROKEN  
(PLASTIC INTERLAYER TORN)

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(9) UNKNOWN

CRACKED OR BROKEN  
BY OCCUPANT CONTACT

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(9) UNKNOWN

## EXTENT OF BOND SEPARATION

- (0) NONE  
(1) 1 - 20%  
(2) 21 - 40  
(3) 41 - 60  
(4) 61 - 80  
(5) 81 - 99  
(6) TOTAL  
(7) SEPARATED, AMOUNT  
UNKNOWN  
(8) NOT APPLICABLE  
(9) UNKNOWN

## WINDSHIELD MARK ON CASE VEHICLE:



## WINDSHIELD CODE

- (97) DESCRIBED BUT NOT CODED  
(98) NOT APPLICABLE (NO WINDSHIELD)  
(99) UNKNOWN

R U  
74 75

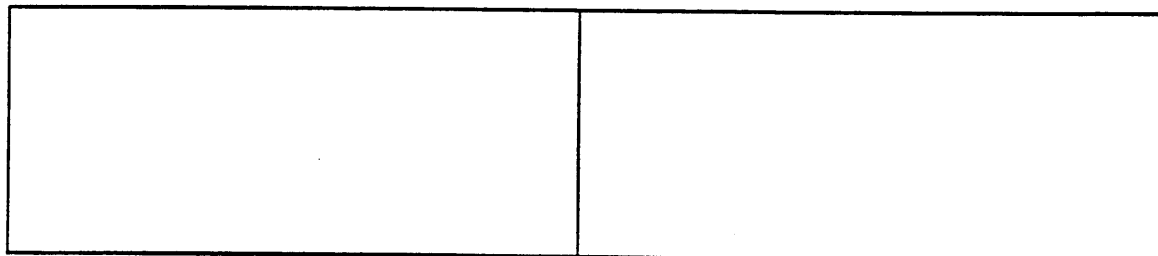
## ROOF

DID T-ROOF/SUN ROOF OPEN  
DURING COLLISION?

- (0) NO  
(1) YES  
(8) NOT APPLICABLE  
(NOT A T-ROOF OR SUN ROOF)  
(9) UNKNOWN

B  
76

LOCATE AREA OF WINDSHIELD INTEREST OR DAMAGE WITH DIMENSIONS (VERTICAL & HORIZONTAL) ON THIS DIAGRAM OF THE WINDSHIELD AS VIEWED FROM INSIDE.



L

C

R

Duplicate columns 1-8  
from the previous card.

Module S C Format 0 1  
9 10 11 12

# STEERING WHEEL AND COLUMN SC-1

## STEERING WHEEL

### STEERING WHEEL RIM DAMAGE

- (0) NONE  
(1) DEFORMED SLIGHTLY  
(2) SEVERELY BENT  
(3) BROKEN  
(9) UNKNOWN

0  
13

### NUMBER OF STEERING WHEEL SPOKES

- (9) UNKNOWN

4  
14

### STEERING WHL SPOKE DAMAGE

- (0) NONE  
(1) DEFORMED SLIGHTLY  
(2) SEVERELY BENT  
(3) BROKEN  
(9) UNKNOWN

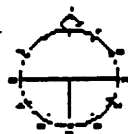
0  
15

### STEERING WHEEL POSITION AT TIME OF COLLISION

IN WHAT O'CLOCK POSITION WAS THE  
NORMAL TOP OF THE WHEEL POINTED  
WHEN THE COLLISION OCCURRED?

#### EXAMPLES

O'CLOCK = 12



(NORMAL STRAIGHT  
AHEAD)

O'CLOCK = 12



O'CLOCK = 99

(99) UNKNOWN

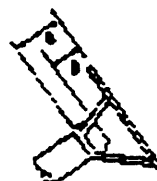
## STEERING WHEEL ENERGY ABSORBING DEVICE

#### (1) EXAMPLES:



BARRACUDA, 70 - 74  
CHALLENGER, 70-74  
CAPRI, 71 - 77

#### (2) EXAMPLES:



OMNI, 78 -  
HORIZON, 78 -

## STEERING COLUMN OPTIONS

### TILT FEATURE

- (0) NOT EQUIPPED  
(1) YES, EQUIPPED, UNK POSITION  
(2) UP  
(3) MIDDLE  
(4) LOWER  
(9) UNKNOWN IF EQUIPPED

3  
16

### SWING-AWAY FEATURE

- (0) NOT EQUIPPED  
(1) YES, EQUIPPED  
(9) UNKNOWN IF EQUIPPED

0  
17

### TELESCOPING FEATURE

- (0) NOT EQUIPPED  
(1) YES, EQUIPPED  
(9) UNKNOWN IF EQUIPPED

0  
18

### TYPE OF DEVICE

- (0) NONE  
(1) CONVOLUTED OR MESH CYLINDER  
(2) DEEP DISH STEERING WHEEL  
(7) OTHER: \_\_\_\_\_  
(8) NOT COLLECTED  
(9) UNKNOWN IF EQUIPPED

8  
19

### ORIGINAL DIMENSION (mm)

A: \_\_\_\_\_

### DAMAGE DIMENSION (mm)

B: \_\_\_\_\_

### DIFFERENCE (mm)

A - B

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO APPARENT  
COMPRESSION  
(992) COMPRESSED, AMOUNT UNKNOWN  
(993) DEVICE EXTENDED  
(997) UNABLE TO MEASURE  
(998) NOT APPLICABLE (NOT EQUIPPED)  
(999) UNKNOWN

8 8 8  
20 22

## STEERING WHEEL AND COLUMN SC-2

STEERING COLUMN  
ENERGY ABSORBING DEVICE

TYPE OF DEVICE \* (IF 27 OR 28)

- (00) NOT EQUIPPED  
(88) NOT COLLECTED  
(99) UNKNOWN

$$\frac{8}{23} \quad \frac{8}{24}$$

ORIGINAL LENGTH (mm)

C: \_\_\_\_\_

COMPRESSED LENGTH (mm)

D: \_\_\_\_\_

BRACKET DEFLECTION (IF CODE 36, 48,  
OR 49 ABOVE)

OR

COMPRESSION (OR EXTRUSION) (mm)

C - D (OR E) (TOLERANCE:  $\pm 10$ )

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO APPARENT  
COMPRESSION  
(992) COMPRESSED, AMOUNT UNKNOWN  
(993) DEVICE EXTENDED  
(997) UNABLE TO BE MEASURED  
(998) NOT APPLICABLE (NOT EQUIPPED)  
(999) UNKNOWN

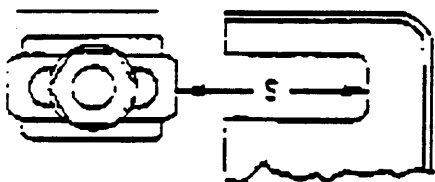
$$\frac{8}{25} \quad \frac{8}{26} \quad \frac{8}{27}$$

\* (ADD A &amp; B FOR TOTAL COMPRESSION)

SHEAR CAPSULE SEPARATION (mm)

S (USE AVG. OF LEFT &amp; RIGHT CAPSULES.)

LT:



RT:

- (888) NOT COLLECTED  
(991) NOT MEASURED/NO APPARENT  
SEPARATION  
(992) SEPARATED, AMOUNT UNKNOWN  
(997) UNABLE TO BE MEASURED  
(998) NOT APPLICABLE (NOT EQUIPPED)  
(999) UNKNOWN

$$\frac{8}{28} \quad \frac{8}{29} \quad \frac{8}{30}$$

## COLUMN VERTICAL ROTATION

- (0) NO APPARENT ROTATION  
(1) UPWARD APPARENT ROTATION  
(2) DOWNWARD APPARENT ROTATION  
(9) UNKNOWN

$$\frac{0}{31}$$

## COLUMN LATERAL ROTATION

- (0) NO APPARENT ROTATION  
(1) LEFT APPARENT ROTATION  
(2) RIGHT APPARENT ROTATION  
(9) UNKNOWN

$$\frac{0}{32}$$

## STEERING WHEEL (CONTINUED)

## STEERING WHEEL HUB DAMAGE

- (0) NONE  
(1) OCCUPANT CONTACT  
(2) AIRBAG  
(3) OTHER \_\_\_\_\_  
(9) UNKNOWN

$$\frac{0}{33}$$

## INTRUSION IT-1

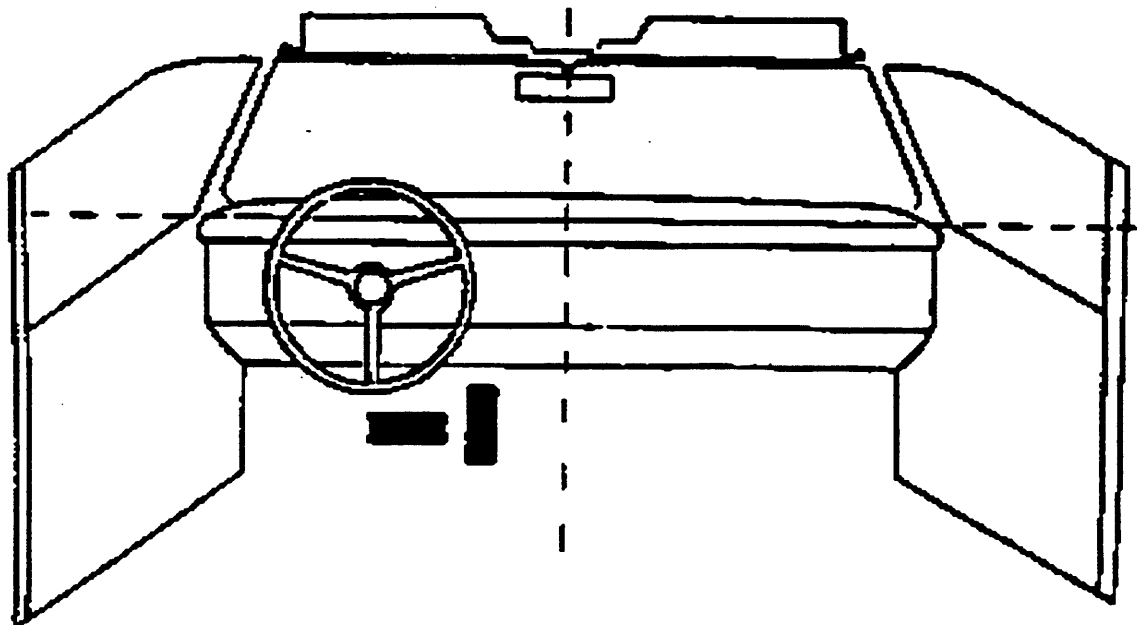
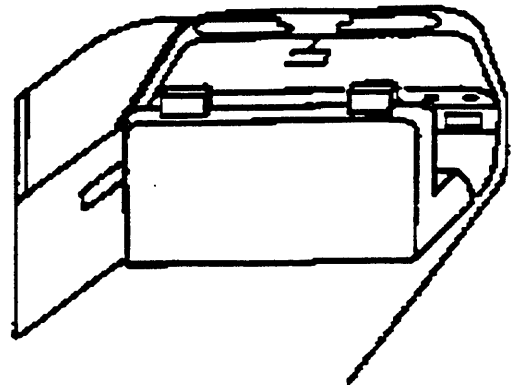
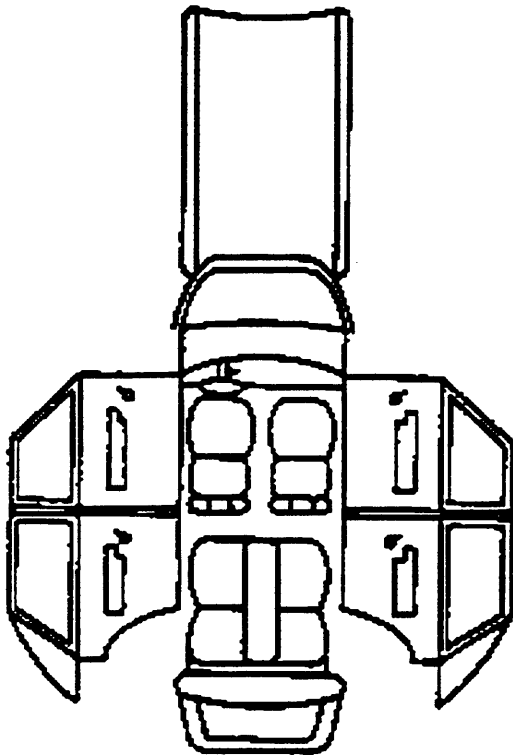
Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)			Dominant Crush Direction
		Comparison Value	=	Intruded Value = Intrusion	
		—	=		
		—	=		
		—	=		
		—	=		
		—	=		
		—	=		
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		—	=		
		—	=		
		—	=		
		—	=		

## OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A					
B					
C					
D					
E					
F					
G					
H					
I					
J					

## INTRUSION IT-2

VEHICLE OCCUPANT CONTACT DIAGRAM





## INTRUSION IT-3

## CODES FOR COLUMN B, OCCUPANT SPACE NUMBER

OCCUPANT SPACE NUMBER IS A TWO-DIGIT CODE. THE USE OF THE CODE IS DETERMINED BY THE VEHICLE SEAT CONFIGURATION AT THE TIME OF THE ACCIDENT.

## FIRST DIGIT

THE FIRST DIGIT (LEFT DIGIT) DENOTES THE SEAT ROW, WITH CODE VALUES FROM 1 TO 5.

## SECOND DIGIT

THE SECOND DIGIT (RIGHT DIGIT) DENOTES THE POSITION ON THE SEAT AND, IN SOME INSTANCES, THE WIDTH OF THE SEAT.

- |                          |                 |                         |   |
|--------------------------|-----------------|-------------------------|---|
| (1) LEFT                 | (3) RIGHT       | .....                   | INDIVIDUAL SEAT                               |
| (1) LEFT                 | (2) CENTER      | (3) RIGHT               | ..... BENCH: FULL WIDTH 3 PASSENGER           |
| (1) LEFT                 | (2) LEFT CENTER | (6) RIGHT CENTER        | (3) RIGHT ..... BENCH: FULL WIDTH 4 PASSENGER |
| (1) LEFT                 | (2) CENTER      | (5) RIGHT & AISLE SPACE | ..... BENCH: PARTIAL WIDTH, LEFT              |
| (0) LEFT & SPACE         | (2) CENTER      | (5) RIGHT & SPACE       | ..... BENCH: PARTIAL WIDTH, CENTERED          |
| (4) ENTIRE VEHICLE WIDTH | .....           |                         | CARGO AREA                                    |

## EXAMPLES

THE TWO FIGURES BELOW PROVIDE EXAMPLES OF THE OCCUPANT SPACE NUMBER.

PASSENGER CAR  
5 PASSENGERS

X	X	11	13
X	X	X	21 22 23

VAN  
12 PASSENGER CAPACITY

X	X	11	13
X	X	X	21 22 25
X	X	X	31 32 35
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
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X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X		

## CODES FOR COLUMN F, MEASUREMENT AXIS

- (X) X-AXIS (FORE & AFT)  
(Y) Y-AXIS (LATERAL)  
(Z) Z-AXIS (VERTICAL)

## CODES FOR COLUMNS G, H, I &amp; J, OCCUPANT &amp; INJURY NUMBERS

OCCUPANT NUMBER	INJURY NUMBER	CONTACT
(00)	(00)	NO CONTACT
(##)	(00)	CONTACT, NO INJURY
(97)	(99)	CONTACT, OCCUPANT UNKNOWN, INJURY UNKNOWN
(99)	(00) OR (99)	UNKNOWN IF CONTACT

## INTRUSION IT-4

## CODES FOR COLUMN C, INTRUDING COMPONENT OR OBJECT

**NOTE: DO NOT CODE OBJECTS OTHER THAN COMPONENTS OF CASE VEHICLE.**

## INDIVIDUAL COMPONENT

## INTERNAL

- (01) INSTRUMENT PANEL
- (02) FIRE WALL
- (03) TOE PAN
- (04) FLOOR PAN
- (05) STEERING COLUMN
- (06) WINDSHIELD
- (07) WINDSHIELD HEADER
- (08) A-PILLAR
- (09) DOOR PANEL OR SIDE PANEL
- (10) WINDOW FRAME
- (11) B-PILLAR
- (12) C-PILLAR
- (13) D-PILLAR
- (14) ROOF SIDE RAILS
- (15) ROOF OR CONVERTIBLE TOP
- (16) BACKLIGHT HEADER
- (17) FRONT SEAT-BACK SURFACE/  
SEAT-BACK BACK SURFACE
- (18) SECOND SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (19) THIRD SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (20) FOURTH SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (21) FIFTH SEAT-BACK SURFACE  
SEAT-BACK BACK SURFACE
- (22) BACK PANEL/BACK DOOR SURFACE
- (23) SEAT CUSHION SURFACE/EDGE
- (24) CONSOLE
- (25) OTHER (*DESCRIBE*)
- (26) UNKNOWN INTERNAL SURFACES
- (28) TRANSMISSION TUNNEL (HUMP)
- (29) SIDE FOOTWELL PANEL (KICKPANEL)
- (30) SILL

## EXTERNAL

- (43) HOOD
- (44) OBJECT EXTERNAL TO PASSENGER  
COMPARTMENT BUT PART  
OF CASE VEHICLE
- (45) OUTSIDE SURFACE OF CASE VEHICLE
- (46) OTHER (*E.G. SPARE TIRE,  
JACK. DESCRIBE.*)
- (49) UNKNOWN EXTERNAL OBJECT

## GROUPED FOR MASSIVE INTRUSION INTO AN OCCUPANT SPACE

**USE ONLY IF ALL THESE COMPONENTS  
INTRUDED INTO A SINGLE OCCUPANT SPACE.**

- |  |  |
|--|--|
| (50) WINDSHIELD HEADER<br>A-PILLAR<br>ROOF SIDE RAIL             | (60) ROOF<br>ROOF RAIL<br>A-PILLAR<br>B-PILLAR<br>C-PILLAR<br>WINDOW FRAME<br>DOOR PANEL<br>FLOOR PAN                |
| (51) INSTRUMENT PANEL<br>A-PILLAR<br>DOOR PANEL                  | (61) INSTRUMENT PANEL<br>TOE PAN<br>WINDSHIELD HEADER<br>A-PILLAR<br>ROOF RAIL<br>WINDOW FRAME<br>DOOR PANEL<br>ROOF |
| (52) INSTRUMENT PANEL<br>A-PILLAR<br>WINDSHIELD HEADER           | (62) ROOF<br>ROOF RAIL<br>C-PILLAR<br>WINDOW FRAME<br>FLOOR PAN<br>SECOND SEAT<br>DOOR PANEL                         |
| (53) DOOR PANEL<br>B-PILLAR<br>ROOF RAIL                         | (63) ROOF RAIL<br>ROOF<br>B-PILLAR<br>WINDOW FRAME<br>FLOOR PAN<br>DOOR PANEL<br>SECOND SEAT<br>FRONT SEAT           |
| (54) DOOR PANEL<br>A-PILLAR<br>ROOF RAIL                         | (64) ROOF RAIL<br>ROOF OR CONVERTIBLE TOP<br>A-PILLAR<br>B-PILLAR<br>WINDOW FRAME<br>WINDOW HEADER                   |
| (55) INSTRUMENT PANEL<br>FLOOR PAN<br>A-PILLAR<br>DOOR FRAME     | (65) WINDSHIELD<br>WINDSHIELD HEADER<br>ROOF SIDE RAIL   |
| (56) ROOF RAIL<br>A-PILLAR<br>B-PILLAR<br>WINDOW FRAME           | (66) WINDSHIELD<br>WINDSHIELD HEADER<br>A-PILLAR   |
| (57) ROOF RAIL<br>A-PILLAR<br>B-PILLAR<br>C-PILLAR<br>DOOR PANEL | (98) NOT APPLICABLE  |
| (58) ROOF<br>ROOF RAIL<br>WINDOW FRAME<br>DOOR PANEL             | (99) UNKNOWN   |
| (59) BACKLIGHT HEADER<br>ROOF<br>C-PILLAR<br>THIRD SEAT-BACK     |  |

Duplicate columns 1-8  
from the previous card.Module 1 1 Format 0 1  
9 10 11 12

INTRUSION IT-5

WAS THERE OCCUPANT COMPARTMENT INTRUSION? 0

13

WAS INTRUSION CATASTROPHIC?     

14

- (0) NO DO NOT ANSWER NEXT QUESTION. SKIP PAGE.  
 (1) YES ANSWER NEXT QUESTION.  
 (9) UNKNOWN SKIP PAGE.

- (0) NO COMPLETE PAGE.  
 (1) YES SKIP PAGE.

Duplicate columns 1-8  
from the previous card.Module 1 1 Format 0 2  
9 10 11 12

NOTE: Each line in the table below is a separate record (card). Duplicate columns 1 - 12 for each completed line.

**INTRUSIONS** CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.  
 CODES FOR B, F, G, H, I, J ON PAGE IT-3  
 CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 6</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 7</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —

NOTE: USE ADDITIONAL PAGE IF MORE THAN 7 INTRUSIONS.

Duplicate columns 1-8  
from the previous card.Module 1 1 Format 0 3  
9 10 11 12NOTE: IF NO SIDE DOOR INTRUSION,  
SKIP REMAINDER OF PAGE.SIDE DOOR INTRUSION  
RESULTED FROMINTRUSION  
NUMBER CAUSECODES  
FOR CAUSE:

- |           |           |             |
|-----------|-----------|-------------|
| <u>13</u> | <u>15</u> | (1) DIRECT  |
| <u>16</u> | <u>18</u> | (2) INDUCED |
| <u>19</u> | <u>21</u> | (9) UNKNOWN |

IF DAMAGE TO DOOR COMPONENT RESULTED IN INCREASED  
DOOR INTRUSION, CODE COMPONENTINTRUSION  
NUMBERDAMAGED  
COMPONENT 1DAMAGED  
COMPONENT 2CODES  
FOR COMPONENTSA            
22 23

—

25

B            
26 27

—

29

C            
30 31

—

33

D            
34 35

—

37

- (0) NONE  
 (1) A-PILLAR  
 (2) B-PILLAR  
 (3) C-PILLAR  
 (4) LATCH/STRIKER  
 (5) HINGES  
 (7) OTHER:       
 (8) NOT APPLICABLE  
 (9) UNKNOWN

Duplicate columns 1-8  
from the previous card.Module 1 1 Format 0 2  
9 10 11 12

INTRUSION IT-6

NOTE: Each line in the table below is a separate record (card).  
Duplicate columns 1 - 12 for each completed line.

- ADDITIONAL PAGE -

INTRUSIONS CODE INTRUSIONS IN THIS ORDER: LEFT TO RIGHT ON ROW; FRONT TO BACK IN VEHICLES.  
 CODES FOR B, F, G, H, I, J ON PAGE IT-3  
 CODES FOR C ON PAGE IT-4

OCCUPANT CONTACT AND INJURY

A	B	C	D	E	F	G	H	I	J	K
INTRUSION NUMBER	OCC. SPACE NO.	INTRUDING COMPONENT OR OBJECT	ASSOC. EVENT NO.	MAXIMUM INTRUSION X AXIS (cm)	MAXIMUM INTRUSION Y AXIS (cm)	MAXIMUM INTRUSION Z AXIS (cm)	OCCUPANT NUMBER	INJURY NUMBER	OCCUPANT NUMBER	INJURY NUMBER
13-14	15-16	17-18	19	20-21	22-23	24-25	26-27	28-29	30-31	32-33
<u>0 8</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>0 9</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 0</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 6</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 7</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 8</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>1 9</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 0</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 1</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 2</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 3</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 4</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —
<u>2 5</u>	— —	— —	—	— —	— —	— —	— —	— —	— —	— —

Duplicate columns 1-8 from the previous card.		Module <u>1</u> <u>D</u> Format <u>0</u> <u>1</u> 9 10 11 12		INTERIOR DAMAGE		ID-1
<b>CODES:</b> (0) NO (1) YES (3) NO, and OCCUPANT CONTACT (4) YES, and OCCUPANT CONTACT (8) NOT APPLICABLE (9) UNKNOWN						
<b>SIDES</b>	<b>LEFT</b>	<b>RIGHT</b>	<b>FRONT</b>		<b>INSTRUMENT PANEL</b>	
FRONT DOOR	<u>0</u> 13	<u>0</u> 14	FOOT CONTROLS	<u>0</u> 45	UPPER PANEL	<u>0</u> 55
FRONT HARDWARE	<u>0</u> 15	<u>0</u> 16	IGNITION KEYS	<u>0</u> 46	MID PANEL	<u>0</u> 56
FRONT ARMREST	<u>0</u> 17	<u>0</u> 18	REAR VIEW MIRROR	<u>0</u> 47	LOWER PANEL	<u>0</u> 57
FRONT GLASS	<u>0</u> 19	<u>0</u> 20	SUNVISOR/FITTINGS	<u>0</u> 48	ASHTRAY	<u>0</u> 58
REAR DOOR AREA	<u>0</u> 21	<u>0</u> 22	(5) LEFT SIDE ONLY (6) RIGHT SIDE ONLY (7) BOTH SIDES		CONTROL KNOBS & LEVERS	<u>0</u> 59
REAR HARDWARE	<u>0</u> 23	<u>0</u> 24	WINDSHIELD TOP MOLDINGS	<u>0</u> 49	GLOVE COMPARTMENT AREA	<u>0</u> 60
REAR ARMREST	<u>0</u> 25	<u>0</u> 26	LEFT A-PILLAR (UPPER OR LOWER)	<u>0</u> 50	INSTRUMENTS	<u>0</u> 61
REAR GLASS	<u>0</u> 27	<u>0</u> 28	RIGHT A-PILLAR (UPPER OR LOWER)	<u>0</u> 51	PARKING BRAKE RELEASE	<u>0</u> 62
ROOF SIDE RAIL	<u>0</u> 29	<u>0</u> 30	CENTER CONSOLE	<u>0</u> 52	PARKING BRAKE PEDAL	<u>0</u> 63
B-PILLAR	<u>0</u> 31	<u>0</u> 32	TRANSMISSION SELECTOR LEVER	<u>0</u> 53	A/C OR UPPER VENT OUTLETS	<u>0</u> 64
C-PILLAR	<u>0</u> 33	<u>0</u> 34	RIM, HORN, SPOKE	<u>0</u> 54	HEATER OR A/C DUCTS	<u>0</u> 65
D-PILLAR	<u>0</u> 35	<u>0</u> 36			RADIO	<u>0</u> 66
HEADLINING	<u>0</u> 37	<u>0</u> 38			OTHER: * _____	<u>0</u> 67
ROOF STRUCTURE	<u>0</u> 39	<u>0</u> 40				
T-ROOF/SUN ROOF	<u>8</u> 41	<u>8</u> 42				
OTHER: * _____	<u>8</u> 43	<u>8</u> 44				
					<b>REAR WINDOW</b>	<u>0</u> 68
					WINDOW HEADER	<u>0</u> 69
					<b>CONSOLES</b>	
					VERTICAL	<u>0</u> 70
					ROOF	<u>0</u> 71

\* MORE THAN ONE ITEM MAY BE NOTED.



41

Duplicate columns 1-8  
from the previous card.Module A B Format 0 1  
9 10 11 12

AIRBAG AB-1

<p style="text-align: center;">DRIVER SIDE</p> <p><b>LOCATION OF AIRBAG</b></p> <p><b>STEERING WHEEL</b></p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 13</p> <p><u>1</u> 14</p>	<p style="text-align: center;">PASSENGER SIDE</p> <p><b>-LOCATION OF AIRBAG</b></p> <p><b>INSTRUMENT PANEL (GLOVE BOX)</b></p> <p>EQUIPPED</p> <p>(0) NO (1) YES (4) PRIOR DEPLOYMENT NOT REINSTALLED (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>DEPLOYED</p> <p>(0) NO (1) YES (2) PARTIAL/IMPROPER DEPLOYMENT (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 16</p> <p><u>1</u> 17</p>
<p><b>CONDITION OF AIRBAG</b></p> <p><b>STEERING WHEEL</b></p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>0</u> 15</p>	<p><b>CONDITION OF AIRBAG</b></p> <p><b>INSTRUMENT PANEL (GLOVE BOX)</b></p> <p>(0) NO DAMAGE (2) SPLIT OR TORN (3) CUT DURING CRASH (4) BURNED/MELTED (5) CUT POST CRASH (6) OTHER _____ (7) DAMAGED, CONDITION UNKNOWN (8) NOT APPLICABLE (NOT EQUIPPED/NOT DEPLOYED) (9) UNKNOWN IF EQUIPPED OR CONDITION</p>	<p><u>0</u> 18</p>
<p style="text-align: center;">DRIVER SIDE</p> <p><b>AIRBAG</b></p> <p><b>STEERING WHEEL</b></p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>1</u> 19</p> <p><u>0</u> 20</p>	<p style="text-align: center;">PASSENGER SIDE</p> <p><b>AIRBAG</b></p> <p><b>INSTRUMENT PANEL (GLOVE BOX)</b></p> <p>TETHER</p> <p>(0) NO (1) YES (6) OTHER _____ (7) UNKNOWN IF TETHERED (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN IF AIRBAG EQUIPPED</p> <p>MARKED BY CONTACT</p> <p>(0) NO (1) YES (8) NOT APPLICABLE (NO AIRBAG) (9) UNKNOWN</p>	<p><u>0</u> 21</p> <p><u>0</u> 22</p>



AIRBAG AB-2

AIRBAG NUMBER ON DRIVER SIDE:

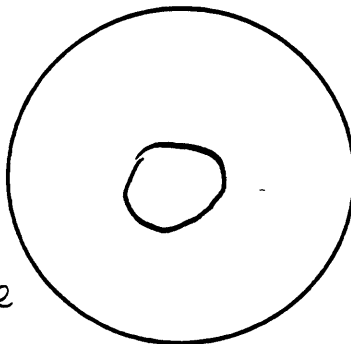
NOTE AND DESCRIBE ANY AIRBAG CONTACT OR  
DAMAGE ON DIAGRAM BELOW:

61 wide

53 Tall

2 vent holes  
at 11 & 1:00Air bag flaps = 10.5 tall  
cm

7.5 cm wide



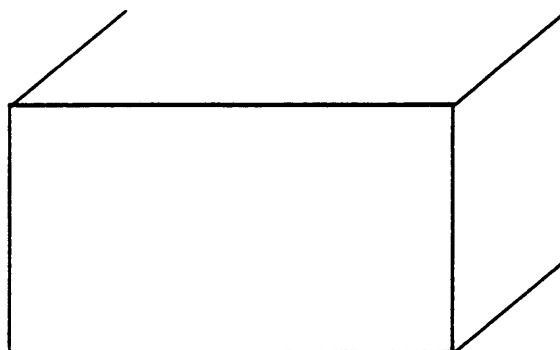
AIRBAG NUMBER ON PASSENGER SIDE:

NOTE AND DESCRIBE ANY AIRBAG CONTACT OR  
DAMAGE ON DIAGRAM BELOW:Vent holes at  
3:00 & 9:00

Seam → Seam

57 wide

40cm tall



NOTE TO THE INVESTIGATOR:

THE FOLLOWING TWO SECTIONS,  
OCCUPANT INFORMATION AND INJURY CLASSIFICATION,  
ARE TO BE FILLED IN  
FOR EACH CASE VEHICLE OCCUPANT,  
WHETHER INJURED OR NOT.

IF THERE IS MORE THAN ONE OCCUPANT,  
USE ADDITIONAL COPIES  
OF PAGES OC-1, OC-2, OC-3,  
AND IC-2 TO DESCRIBE THEM  
AND ATTACH THE COPIES TO THIS REPORT.

TEAM REPORT NUMBER: UM-3713-98

Duplicate columns 1-8 from the previous card.		Module <u>0</u> <u>C</u> Format <u>0</u> <u>2</u> 9 10 11 12	OCCUPANT INFORMATION OC-1	
<b>OCCUPANT IDENTIFICATION</b>  OCCUPANT NUMBER <u>01</u> <small>13 14</small>  ROLE OF OCCUPANT AT 1ST IMPACT (1) MOTOR VEHICLE DRIVER (2) MOTOR VEHICLE PASSENGER (NOT DRIVER) (9) UNKNOWN <u>1</u> <small>15</small>		<b>PHYSICAL DESCRIPTION</b>  AGE IN YEARS <u>28</u> <small>(00) LESS THAN 1 YEAR (98) 98 YEARS OR OLDER (99) UNKNOWN</small> <small>20 21</small>  AGE IN MONTHS <u>25</u> <small>(00) LESS THAN 1 MONTH (25) 25 MONTHS OR OLDER (99) UNKNOWN</small> <small>22 23</small>  MASS (kg) <u>095</u> <small>(999) UNKNOWN (210 lb)</small> <small>24 25 26</small>  HEIGHT (cm) <u>180</u> <small>(999) UNKNOWN (5ft 11in)</small> <small>27 28 29</small>  SEX <u>1</u> <small>(1) MALE (2) FEMALE (9) UNKNOWN</small> <small>30</small>		
<b>OCCUPANT POSITION</b>  ROW LOCATION (1) FRONT (2) SECOND (3) THIRD (4) FOURTH (7) OTHER: _____ (8) EXTERNAL TO PASSENGER COMPARTMENT (E.G. BED OF PICKUP) (9) UNKNOWN <u>1</u> <small>16</small>  LATERAL LOCATION (1) LEFT (2) LEFT CENTER (3) CENTER (4) RIGHT CENTER (5) RIGHT (6) ALL (LYING ON SEAT) (8) EXTERNAL TO PASSENGER COMPARTMENT (9) UNKNOWN <u>1</u> <small>17</small>  POSTURE (10) SITTING ON SEAT (11) SITTING ON SEAT IN ABNORMAL POSITION (E.G. FEET ON DASH, SIDEWAYS) (12) SITTING ON CONSOLE (20) ON LAP OR IN ARMS (30) STANDING ON SEAT (40) STANDING ON FLOOR (47) STANDING, EXTERNAL TO PASSENGER COMPARTMENT (50) IN BASSINET (60) IN CHILD SEAT (65) IN CHILD HARNESS (70) LYING ON SEAT (80) LYING/SITTING ON PASSENGER FLOOR (83) LYING/SITTING ON OTHER OBJECT IN PASSENGER COMPARTMENT: _____ (85) ON CARGO FLOOR/FOLDED SEAT-BACK (87) LYING/SITTING, EXTERNAL TO PASSENGER COMPARTMENT (97) OTHER: _____ (99) UNKNOWN <u>10</u> <small>18 19</small>		<b>MEDICAL CONDITIONS</b>  TREATMENT/MORTALITY (00) NONE (01) FIRST AID AT SCENE (02) TREATED AT HOSPITAL/CLINIC BUT NOT ADMITTED (03) HOSPITALIZED FOR OBSERVATION LESS THAN 24 HOURS (04) HOSPITALIZED OVER 24 HOURS OR FOR SIGNIFICANT TREATMENT (05) FATAL, DEAD AT SCENE (06) FATAL, DOA (07) FATAL, DEAD WITHIN 24 HOURS (08) FATAL, DEAD 24 HOURS TO 31 DAYS LATER (09) FATAL, DEAD 31 DAYS TO 1 YEAR LATER (10) FATAL DEAD WITHIN UNKNOWN PERIOD (99) UNKNOWN <u>00</u> <small>31 32</small>  INJURY SEVERITY SCORE (ISS) (99) UNKNOWN <u>00</u> <small>33 34</small>  NON-IMPACT MED. CONDITIONS (0) NONE (1) YES, TIME & TYPE UNKNOWN (2) PRE-CRASH FATAL (CLINICAL DEATH AT WHEEL) (3) PRE-CRASH NON-FATAL (E.G. PRIOR INJURY, STROKE) (4) PREGNANT (5) POST-CRASH FATAL (DROWNING) (6) POST-CRASH NON-FATAL INJURY (7) OTHER: _____ (8) COMBINATION OF ABOVE (CIRCLE EACH) (9) UNKNOWN <u>0</u> <small>35</small>		

## OCCUPANT INFORMATION OC-2

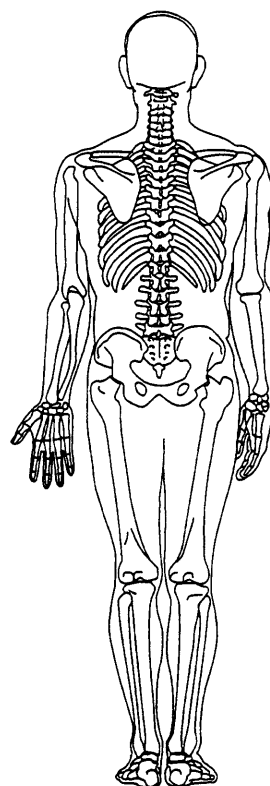
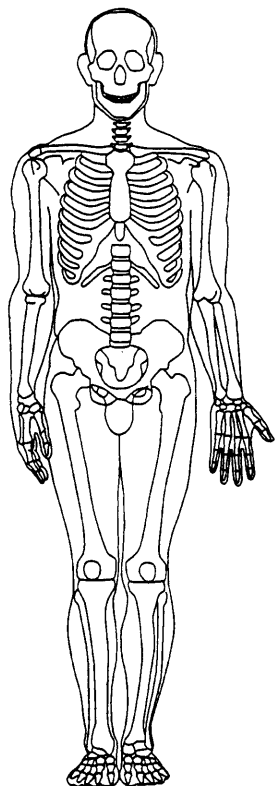
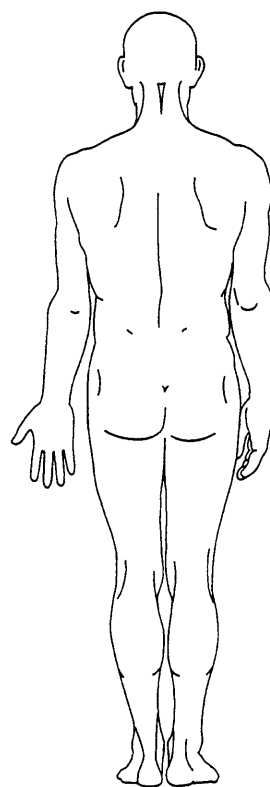
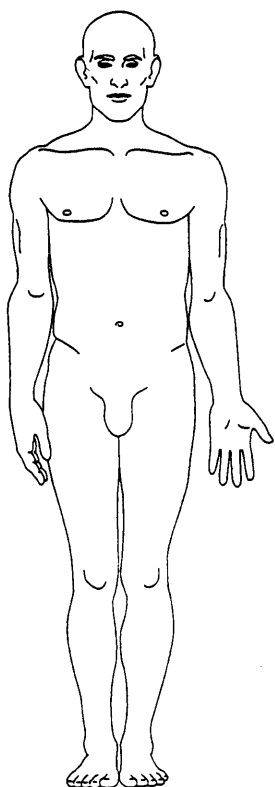
OCCUPANT INFORMATION OC-2			
<b>MEDICAL CONDITIONS (CONT.)</b>  <b>POLICE INJURY SEVERITY CODE FOR THIS OCCUPANT</b>  (0) O - NO INJURY (1) C - POSSIBLE INJURY (2) B - NON-INCAPACITATING (3) A - INCAPACITATING INJURY (4) K - FATAL (5) INJURED, SEVERITY UNKNOWN (6) DIED PRIOR TO IMPACT (7) NON-FATAL INJURY, SEVERITY UNKNOWN (9) UNKNOWN	<u>1</u> 36	<b>CHILD SEAT TYPE</b>  (00) NONE USED (01) YES, USED (02) INTEGRAL, Chrysler Mini-van (88) NOT APPLICABLE (ADULT OR OLDER CHILD) (99) UNKNOWN  <b>CHILD SEAT MAKE/MODEL</b>  _____ _____ _____	<u>8 8</u> 41 42
<b>RESTRAINT SYSTEM</b>  <b>ACTIVE RESTRAINT SYSTEM</b>  (0) NONE (1) LAP BELT (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (9) UNKNOWN  <b>ACTIVE RESTRAINT SYSTEM USAGE</b>  (0) NONE (AVAILABLE BUT NOT USED) (1) LAP BELT ONLY (2) SHOULDER HARNESS ONLY (3) BOTH LAP BELT & SHOULDER HARNESS (7) IMPROPER USAGE (8) NOT APPLICABLE (NONE AVAILABLE) (9) UNKNOWN  <b>PASSIVE RESTRAINT SYSTEM</b>  (0) NONE (1) AIRBAG INSTALLED (2) PASSIVE UPPER TORSO WITH KNEE BOLSTERS (3) PASSIVE UPPER TORSO WITHOUT KNEE BOLSTERS (4) PASSIVE LAP & UPPER TORSO (5) AIRBAG INSTALLED & PASSIVE RESTRAINT (7) OTHER: _____ (9) UNKNOWN  <b>PASSIVE RESTRAINT SYSTEM USAGE</b>  (0) SYSTEM DEFEATED (1) AIRBAG NOT DEPLOYED (2) AIRBAG DEPLOYED (3) AIRBAG NOT REINSTALLED (4) PASSIVE UPPER TORSO USED (5) PASSIVE LAP & UPPER TORSO USED (6) SYSTEM USED IN MANUAL MODE (7) IMPROPER USAGE (8) NOT APPLICABLE (NOT ORIGINALLY EQUIPPED) (9) UNKNOWN	<u>3</u> 37  <u>3</u> 38  <u>1</u> 39  <u>2</u> 40	<b>EJECTION</b>  <b>DEGREE OF EJECTION</b>  (0) NONE (1) PARTIAL (2) COMPLETE (7) EJECTED, DEGREE UNKNOWN (9) UNKNOWN IF EJECTED  <b>AREA OF EJECTION</b>  (01) WINDOW, LEFT SIDE (02) WINDOW, RIGHT SIDE (03) WINDOW, REAR (04) DOOR, LEFT SIDE (05) DOOR, RIGHT SIDE (06) DOOR, REAR OR TAILGATE (07) WINDSHIELD (08) ROOF OR OPEN CONVERTIBLE OR FROM EXTERNAL AREA (96) EJECTED AREA UNKNOWN (97) OTHER AREA: _____ (98) NOT APPLICABLE (NOT EJECTED) (99) UNKNOWN IF EJECTED  <b>IF OCCUPANT WAS EJECTED, DESCRIBE IN DETAIL BELOW:</b>  _____ _____ _____ _____	<u>0</u> 43  <u>9 8</u> 44 45
		<b>HEAD RESTRAINT</b>  <b>HEAD RESTRAINT AVAILABLE FOR THIS POSITION</b>  (0) NOT EQUIPPED OR REMOVED (1) EQUIPPED (9) UNKNOWN	<u>1</u> 46

## OCCUPANT INFORMATION OC-3

OCCUPANT EYEWEAR		SOURCE OF INFORMATION	
(0) NONE	<u>0</u> 47	(0) INTERVIEW	<u>0</u> 48
(1) GLASSES		(1) HOSPITAL	
(2) CONTACTS		(2) AUTOPSY	
(3) BOTH GLASSES AND CONTACTS		(3) POLICE	
(4) OTHER _____		(4) OTHER _____	
(8) NOT APPLICABLE		(5) LAY CORONER/EXTERNAL EXAM	
(9) UNKNOWN		(7) COMBINATION OF ABOVE (CIRCLE)	
		(8) NOT APPLICABLE	
		(9) UNKNOWN	

## OCCUPANT INFORMATION OC-4

No Injury



Duplicate columns 1-8  
from the previous card.Module 1 C Format 0 1  
9 10 11 12

## INJURY CLASSIFICATION IC-1

NOTE: Each line in the table below is a separate record (card).  
Duplicate columns 1 - 12 for each completed line.

## OCCUPANT INJURY CLASSIFICATION

				PRIMARY OIC					ASSOCIATED OIC					COMMENTS	
OCCUPANT NUMBER	INJURY NUMBER	PLACE CONTACTS IN ORDER OF PROBABILITY (HORIZONTALLY). START WITH MOST PROBABLE IN 1ST CONTACT AREA COLUMN.		AREA(S) OF POSSIBLE CONTACT 1ST 2ND	BODY REGION 1	ASPECT 2	LESION 3	SYSTEM/ORGAN 4	SEVERITY 5	BODY REGION 1	ASPECT 2	LESION 3	SYSTEM/ORGAN 4	SEVERITY 5	
		1ST	2ND												
13-14	15-16	17-18	19-20	COMMENTS	21	22	23	24	25	26	27	28	29	30	
Duplicate "Occupant Number" for each line. ↑	---	---	---	No Injury	---	---	---	---	---	---	---	---	---	---	
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NOTE: USE ADDITIONAL PAGES IF NECESSARY.

## INJURY CLASSIFICATION IC-2

## CODES FOR AREAS OF POSSIBLE OCCUPANT CONTACT

## FRONT OF PASSENGER COMPARTMENT

- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (12) WINDSHIELD
- (05) INSTRUMENT PANEL (SPECIFIC AREA UNKNOWN)
- (54) UPPER INSTRUMENT PANEL (X)
- (55) MIDDLE INSTRUMENT PANEL (Y)
- (56) LOWER INSTRUMENT PANEL (Z)
- (81) ASH TRAY (INSTRUMENT PANEL)
- (02) GLOVE COMPARTMENT AREA
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER

- (57) BENEATH INSTRUMENT PANEL
- (53) PARCEL TRAY
- (48) KNEE RESTRAINT
- (86) VERTICAL CONSOLE

- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)

- (09) STEERING ASSEMBLY (SPECIFIC AREA UNKNOWN)
- (65) STEERING WHEEL
- (66) STEERING WHEEL COLUMN
- (59) TRANSMISSION LEVER ON COLUMN

- (03) HARDWARE ITEM (SPECIFIC AREA UNKNOWN)
- (82) INSTRUMENT(S)
- (83) CONTROL KNOB(S) & LEVER(S) (FRONT)
- (84) PARKING BRAKE HANDLE IN FRONT
- (67) IGNITION KEY
- (06) MIRROR
- (04) HEATER OR AIR CONDITIONING DUCTS
- (01) AIR CONDITIONING OR VENTILATION OUTLET(S)
- (08) RADIO (BUILT IN)
- (58) ADD-ON TAPE DECK, RADIO, A/C
- (68) ROOF MOUNTED CONTROLS/CONSOLES

## REAR

- (88) SURFACE OF REAR INTERIOR
- (23) REAR WINDOW
- (39) REAR WINDOW HEADER
- (50) REAR SEAT CUSHION & BACK

## INTERIOR-GENERAL

- (11) TRANSMISSION SELECTION LEVER (LOCATION UNK.)
- (59) TRANSMISSION LEVER ON STEERING COLUMN
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (07) PARKING BRAKE HANDLE (LOCATION UNKNOWN)
- (84) PARKING BRAKE HANDLE IN FRONT
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)

- (29) FRONT SEAT-BACK(S)
- (51) FRONT SEAT CUSHION
- (50) REAR SEAT CUSHION & BACK
- (49) ARMREST ON SEAT
- (89) UNDER SEAT BOTTOM

- (33) RESTRAINT SYSTEM HARDWARE
- (34) RESTRAINT SYSTEM WEBBING
- (87) AIR CUSHION SKIN (AIRBAG)
- (47) AIRBAG (ACRS) COMPARTMENT DOOR/COVER
- (46) AIRBAG GAS
- (48) KNEE RESTRAINT
- (30) HEAD RESTRAINT
- (42) CHILD SEAT RESTRAINTS
- (43) CHILD SEAT
- (31) INTERIOR LOOSE OBJECT
- (32) OTHER OCCUPANT(S)
- (52) INTERNAL FLYING GLASS (FROM ANY SOURCE)
- (41) UNKNOWN INTERIOR SURFACE

## SIDES

- (20) SURFACE OF SIDE INTERIOR
- (19) HARDWARE ON SIDE OR DOOR
- (13) ARMREST ON SIDE OR DOOR
- (24) COAT HOOK

- (22) WINDOW GLASS (SIDE)
- (21) WINDOW FRAMES (SIDE)

- (26) ROOF SIDE RAIL
- (14) A-PILLAR
- (15) B-PILLAR
- (16) C-PILLAR
- (17) D-PILLAR

## FLOOR

- (40) FLOOR
- (27) CONSOLE ON FLOOR OR BETWEEN SEATS
- (44) TRANSMISSION LEVER ON FLOOR OR CONSOLE
- (85) PARKING BRAKE HANDLE ON FLOOR OR CONSOLE
- (28) FOOT CONTROLS (INCL. PARKING BRAKE PEDAL)
- (91) KICKPANEL

## ROOF

- (25) ROOF OR CONVERTIBLE TOP
- (10) SUNVISOR, FITTING(S) &/OR TOP MOLDING
- (26) ROOF SIDE RAIL
- (24) COAT HOOK
- (18) DOME LIGHT
- (39) BACKLIGHT HEADER
- (68) ROOF MOUNTED CONTROLS/CONSOLE
- (69) ROLL BAR

## EXTERIOR SURFACE OF CASE VEHICLE

- (37) OUTSIDE SURFACE OF CASE VEHICLE (SPECIFIC AREA UNKNOWN)
- (35) HOOD OF CASE VEHICLE
- (60) EXTERIOR OF CASE VEHICLE (E.G. OUTSIDE MIRRORS, ANTENNA, TRIM)
- (62) EXTERIOR SIDE ROOF RAIL OF CASE VEHICLE
- (63) TRUNK LID OF CASE VEHICLE
- (64) TIRES OF CASE VEHICLE

## BEYOND CASE VEHICLE BOUNDARY

- (36) AREA EXTERIOR TO CAR (SPECIFIC AREA UNK.)
- (70) HOOD OF OTHER VEHICLE
- (71) OTHER VEHICLE EXTERIOR HARDWARE (E.G. OUTSIDE MIRRORS, ANTENNA, TRIM)
- (73) EXTERIOR SIDE ROOF RAIL OF OTHER VEHICLE
- (74) HEADLIGHT OR FRONT GRILL OF OTHER VEH.
- (75) TRUNK OF OTHER VEHICLE
- (76) OUTSIDE SURFACE OF OTHER VEHICLE
- (77) TIRES OF OTHER VEHICLE
- (78) GROUND
- (79) WATER
- (80) EXTERIOR OBJECT (NOT VEHICLE, GROUND, OR WATER. PLEASE DESCRIBE.)

## PENETRATING OBJECTS

- (61) OTHER VEHICLE
- (72) OBJECTS (DESCRIBE)

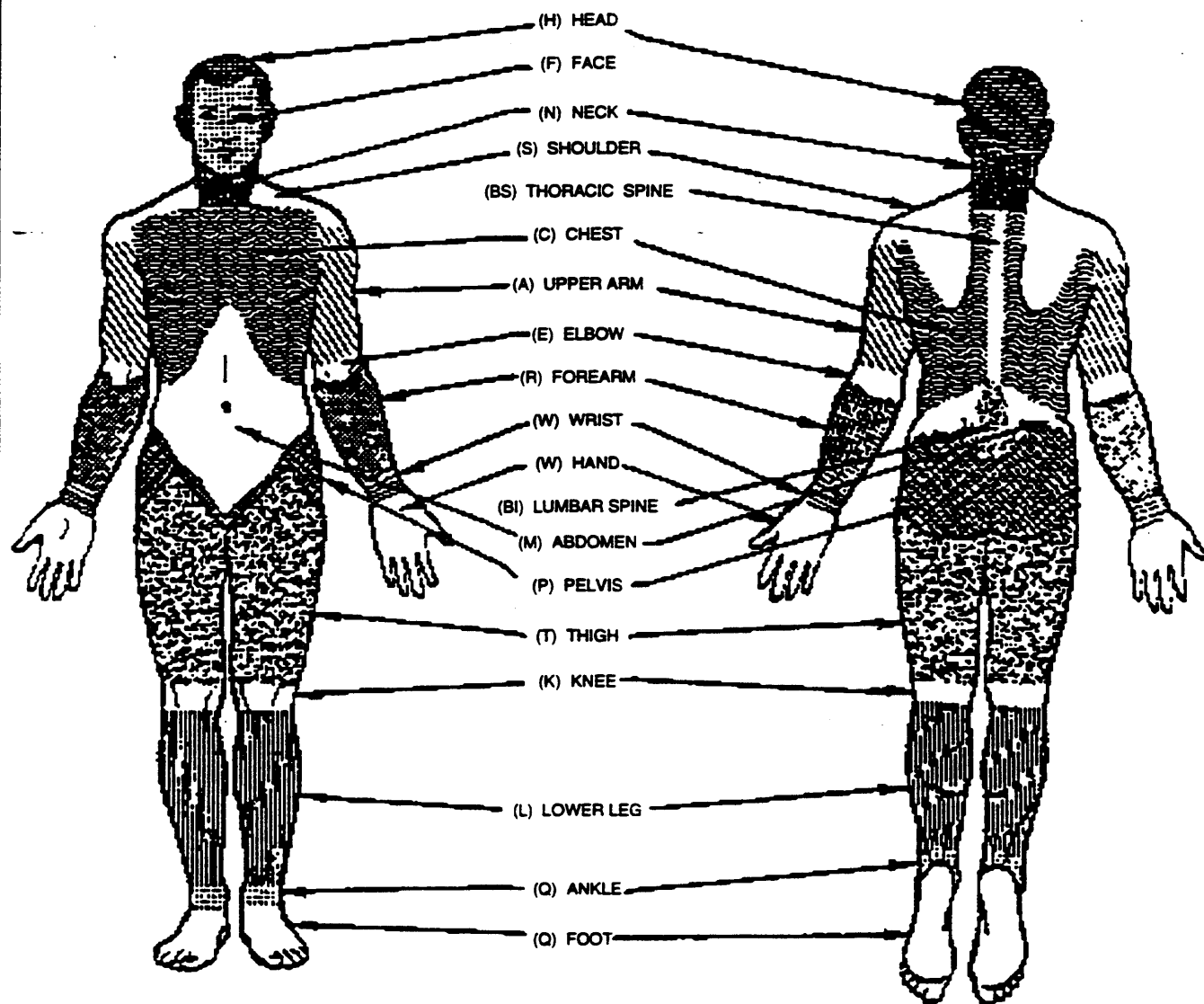
## MISCELLANEOUS

- (00) NO CONTACT (INVALID FIELD FORM CODE)
- (38) OTHER (E.G. FIRE. DESCRIBE)
- (90) SPARE TIRE
- (96) INDUCED
- (97) EJECTED, UNKNOWN CONTACT
- (98) IMPACT FORCE, "WHIPLASH", HYPEREXTENSION/COMPRESSION
- (99) UNKNOWN AREA OF CONTACT



## INJURY CLASSIFICATION IC-3

THE FIGURE BELOW  
IS AN EXPLANATION OF THE BODY REGION CODES  
LISTED ON PAGE IC-4.



## INJURY CLASSIFICATION IC-4

## CODES FOR OCCUPANT INJURY CLASSIFICATION (OIC)

**1 BODY REGION**

(H) HEAD/SKULL  
 (F) FACE  
 (N) NECK  
 (S) SHOULDER  
 (X) UPPER EXTREMITIES  
 (A) ARM (*UPPER*)  
 (E) ELBOW  
 (R) FOREARM  
 (W) WRIST/HAND  
 (C) CHEST  
 (M) ABDOMEN  
 (B) BACK  
 (P) PELVIC/HIP  
 (Y) LOWER EXTREMITIES  
 (T) THIGH  
 (K) KNEE  
 (L) LEG (*LOWER*)  
 (Q) ANKLE/FOOT  
 (O) WHOLE BODY  
 (U) UNKNOWN

**3 LESION**

(L) LACERATION  
 (C) CONTUSION  
 (A) ABRASION  
 (F) FRACTURE  
 (P) PERFORATION, PUNCTURE  
 (K) CONCUSSION  
 (V) AVULSION  
 (R) RUPTURE  
 (S) SPRAIN  
 (D) DISLOCATION  
 (N) CRUSH  
 (M) AMPUTATION  
 (B) BURN  
 (G) DETACHMENT, SEPARATION  
 (Z) FRACTURE AND DISLOCATION  
 (T) STRAIN  
 (E) TOTAL SEVERANCE, TRANSECTION  
 (O) OTHER  
 (U) UNKNOWN

**4 SYSTEM/ORGAN**

(S) SKELETAL  
 (V) VERTEBRAE  
 (J) JOINTS  
 (D) DIGESTIVE  
 (L) LIVER  
 (N) NERVOUS SYSTEM  
 (B) BRAIN  
 (C) SPINAL CORD  
 (E) EARS  
 (O) EYES  
 (A) ARTERIES  
 (H) HEART  
 (Q) SPLEEN  
 (G) UROGENITAL  
 (K) KIDNEYS  
 (R) RESPIRATORY  
 (P) PULMONARY/LUNGS  
 (M) MUSCLES  
 (T) THYROID, OTHER ENDOCRINE GLAND  
 (I) INTEGUMENTARY (*SKIN*)  
 (W) ALL SYSTEMS IN REGION  
 (U) UNKNOWN

**2 ASPECT**

(R) RIGHT  
 (L) LEFT  
 (B) BILATERAL  
 (C) CENTRAL  
 (A) ANTERIOR/FRONT  
 (P) POSTERIOR/BACK  
 (S) SUPERIOR/UPPER  
 (I) INFERIOR/LOWER  
 (W) WHOLE REGION  
 (U) UNKNOWN

BODY REGION	ASPECT	LESION	SYSTEM/ORGAN	SEVERITY
1	2	3	4	5

**5 SEVERITY**  
(OR "AIS", ABBREVIATED INJURY SCALE)

(0) NONE  
 (1) MINOR  
 (2) MODERATE  
 (3) SERIOUS  
 (4) SEVERE  
 (5) CRITICAL  
 (6) MAXIMUM  
 (9) UNKNOWN

Case No.: PN3710-98

Case No.: (a) 1998 CMC

Type: Suburban SLE, 4-door 4 x 4 A/Ty

Driver: 18 year-old male

Vehicle: 1998 Buick Regal Custom, 4-door sedan

Light Conditions: Daylight

Weather: Clear

Road Surface: Dry

Road Construction: Asphalt





PN3710-98 #2



PN 3710-88 #3



PN3710-98 #4



PN3710-98 #5



PN 3710-98 #6





**PN 3710-98 #7**  
**Best Available**



**PN3710-98 #8**  
**Best Available**



PN 3710-98 #9



PN3710-88 #10



PN 3710-98 #11



PN3710-98 #12



**PN3710-98 #13**  
**Best Available**

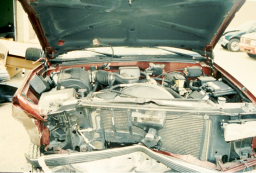


**PN3710-98 #14**  
**Best Available**





PN3710-98 #15



PN3710-98 #16



PN 3710-98 #17



**PN 3710-98 #18**  
**Best Available**



PN3710-98 #19



PN3710-98 #20



PN 3710-98 #21



PN3710-98 #22





**PN 3710-98 #23**  
**Best Available**



PN3710-98 #24



PN 3710-98 #25



PN3710-98 #26



PN 3710-98 #27



PN3710-98 #28



PN 3710-98 #29



PN 3710-98 #30





PN 3710-98 #31



PN 3710-98 #32



PN 3710-98 #33



PN 3710-98 #34



PN3710-98 #35

CASE NO. 201574-00

CASE VEHICLE: 1998 GMC

TYPE: Suburban BLU, 8 door 4 x 4 4PR

OCCUPANT: Driver 18-year-old male

STATURE: 180 cm (5 ft 11 in) MASS: 66 kg (145 lb)

RESTRAINTS: 2-point belt worn and airbag deployed

SEVERITY: Head - 0      Torso - 0



No injury

